

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name T7 mScript™ Enzyme Solution

Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

This product is for research and development use only. Enzyme solution. Avoid concentration of components by evaporation. Use within prescribed temperature parameters.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC
Address	726 Post Road
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product as provided is not considered a hazardous mixture or substance.

2.2 Hazards not otherwise classified

No data available.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
T7 mScript™ Enzyme	N/A	9014-24-8	232-756-4	N/A
Glycerol	C ₃ H ₈ O ₃	56-81-5	200-289-5	50%
2-Amino-2-(hydroxymethyl)-1,3-propanediol	C ₄ H ₁₁ NO ₃	77-86-1	201-064-4	50 mM
Sodium chloride	NaCl	7647-14-5	231-598-3	100 mM
Dithiothreitol (DTT)	C ₄ H ₁₀ O ₂ S ₂	3483-12-3	222-468-7	1 mM
Ethylenediaminetetraacetic acid (EDTA) Disodium Salt Dihydrate	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2H ₂ O	6381-92-6	205-358-3	0.1 mM
Triton X-100	C ₁₄ H ₂₂ O(C ₂ H ₄ O) _n (n=9-10)	9002-93-1	618-344-0	0.1%

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

- Eye:** Remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.
- Skin:** Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.
- Inhalation:** Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.
- Ingestion:** Rinse mouth with water. Do not induce vomiting. If feeling unwell, get medical advice/attention.

4.2 Most important symptoms and effects

Acute and Delayed No data available

Chronic No data available

4.3 Recommendations for immediate medical care and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	No data available.
Special hazards arising from mixture:	Carbon oxides, nitrogen oxides, sodium oxides, and sulfur oxide gas may be produced under fire conditions.
Advice for firefighters:	Wear self-contained breathing apparatus and full protective gear while extinguishing the fire. Avoid concentration to solids by evaporation.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill: Absorb onto inert material (sawdust or absorbent paper).

Cleaning-up methods: Shovel/sweep up debris and store in a sealed plastic container for disposal.

Additional information pertaining to the spill: Bulk materials and spill debris should be disposed of as hazardous waste.

Reference to other sections: See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:

Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.

General hygiene advice:

Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.

Measures to prevent fire:

Not available

Measures to prevent aerosol/dust generation:

Not available

Measures to protect the environment:

Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:

Store at -20°C in a freezer without a defrost cycle. Do not store at -70°C.

Packaging materials:

Store in original container.

Requirements for storage rooms and vessels:

Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Glycerol (CAS 56-81-5)	TWA	USA	5 mg/m ³ , mist, respirable fraction 15 mg/m ³ , mist, total particulate	Cal/OSHA PEL

8.2 Engineering controls

Safety shower, eye wash station, and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:

Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be worn.

Skin/body protection:

Wear lab coat.

Hand protection:

Latex, nitrile or rubber gloves should be worn when handling the product.

Respiratory protection:

Use in a well-ventilated area. In cases of insufficient ventilation, respirators may be used.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9—Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	None
Odor threshold:	None
pH:	7.5
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Not available
Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Not available
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity	No data available.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid concentration of liquid mixture to solids.
Incompatible materials:	Strong oxidizing agents, bases, alkali metals, and reducing agents.
Hazardous decomposition products:	Under normal conditions of storage and use, no hazardous decomposition products are known to be produced. See section 5 for hazardous gases produced under fire conditions.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation, ingestion, eye and skin contact.

11.1 Acute effects

Eye:	Redness and soreness.
Skin:	Redness, rash, burning, dry, and itching skin.
Inhalation:	Nasal irritation, headache, cough, shortness of breath.
Ingestion:	Malaise, dizziness, and nausea, gastrointestinal burns.
Toxicity:	Not available
Chronic health effects:	Not available
Carcinogenicity:	Not available
Germ cell mutagenicity:	Not available
Reproductive toxicity:	Not available
Developmental:	Not available
Fertility:	Not available
STOT-repeated exposure:	Not available
Aspiration hazard:	Not available
Other information:	None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity:	Not available
Chronic toxicity:	Not available
Eco/aquatic toxicity:	Not available

12.2 Persistence and Degradability

Abiotic degradation:	Not available
Physical- and photo-chemical elimination:	Not available
Biodegradation:	Not available
Bioaccumulative potential:	Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	None
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product.
Waste codes/waste designations according to LoW: Waste treatment-relevant information:	Unknown Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is classified as not hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not available
UN proper shipping name:	Not available
Transport hazard class(es):	Not available
Packing group:	Not available
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are at levels that exceed threshold levels subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA 311/312 Hazards

Should EPCRA 311/312 reporting criteria be met, see section 2 for hazard information and classifications.

15.5 Massachusetts Right-To-Know Substance List

Not listed

15.6 Pennsylvania Right-To-Know hazardous Substances

Glycerol (CAS# 56-81-5): Present

15.7 New Jersey Worker and Community Right-To-Know components

Glycerol (CAS# 56-81-5): Present

15.8 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.9 United States of America Toxic Substances Control Act (TSCA) List

All ingredients except EDTA disodium dihydrate, are listed in the TSCA Inventory. This product is for research use only.

15.10 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

All ingredients are listed except RNA polymerase.

15.11 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients are listed.

SECTION 16: Other Information**16.1 Disclaimer**

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 24JUN2024

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name 10X T7 mScript™ Transcription Buffer II
Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

Enzyme reaction buffer. Avoid concentration of components by evaporation. This product is for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC.
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

Skin Irritation category 2, H315
Eye Irritation category 2A, H319

2.2 Signal Word

Warning

2.3 Hazard Statements

H315 causes skin irritation
H319 causes eye irritation

2.4 Precautionary Statements

P264	Wash skin thoroughly after handling
P280	Wear protective gloves/ eye protection/ face protection
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water. Remove contacts, if present and easy to do, and continue rinsing.
P332 + P313	If skin irritation occurs: get medical advice/attention
P337 + P313	If eye irritation persists: get medical advice/attention
P362	Remove contaminated clothing and wash before reuse

2.5 Pictograms



2.6 Hazards not otherwise classified

No data available.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
Proprietary				

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

- Eye: Remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.
- Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.
- Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.
- Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

- ACUTE No data available
CHRONIC No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

- Suitable extinguishing media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media: No data available.
- Special hazards arising from mixture: Carbon oxides, sulphur oxides and nitrogen oxides may be produced under fire conditions.
- Advice for firefighters: Wear self-contained breathing apparatus and full protective gear while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill: Absorb onto inert material (sawdust or absorbent paper).

Cleaning-up methods: Shovel/sweep up debris and store in a sealed plastic container for disposal.

Additional information pertaining to the spill: Bulk materials and spill debris should be disposed of as hazardous waste.

Reference to other sections: See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle. Do not store at -70°C. Known to be hygroscopic.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	Store in well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be worn.
Skin/body protection:	Wear lab coat
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling the product.
Respiratory protection:	Use in a well-ventilated area. In cases of insufficient ventilation, respirators may be used.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment.

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Not available
Odor threshold:	None
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Not available
Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Avoid concentration of liquid, stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid concentration of liquid mixture to solids.
Incompatible materials:	Strong oxidizing agents, acid, acid chlorides, acid anhydrides.
Hazardous decomposition products:	No data available.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation; ingestion, eye and skin contact.

11.1 Acute effects

Eye:	Causes eye irritation
Skin:	Causes skin irritation
Inhalation:	Causes irritation to mucous membranes and respiratory tract
Ingestion:	May be harmful if swallowed
Toxicity:	Not available.
Chronic health effects:	Not available
Carcinogenicity:	Not available
Germ cell mutagenicity:	Not available
Reproductive toxicity:	Not available
Developmental:	Not available
Fertility:	Not available
STOT-repeated exposure:	Not available
Aspiration hazard:	Not available
Other information:	None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity:	Not available
Chronic toxicity:	Not available
Eco/aquatic toxicity:	Not available

12.2 Persistence and Degradability

Abiotic degradation:	Not available
Physical- and photo-chemical elimination:	Not available
Biodegradation:	Not available
Bioaccumulative potential:	Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	None
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by chemical incinerator.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is classified as not hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not available
UN proper shipping name:	Not available
Transport hazard class(es):	Not available
Packing group:	Not available
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

Should EPCRA 311/312 reporting criteria be met, see section 2 for hazard information and classifications.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 United States of America Toxic Substances Control Act (TSCA) List

All ingredients are listed in the TSCA inventory.

15.7 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

All ingredients are listed.

15.8 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC. at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC. assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 12Mar2024

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name 100 mM DTT solution
Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

This product is a laboratory reagent for research and development use only. Avoid concentration of components by evaporation.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC.
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

Acute Toxicity Oral:	category 4
Skin Irritation:	category 2
Eye Irritation:	category 2
Specific Target Organ Toxicity Single Exposure	category 3

2.2 Signal Word

Warning

2.3 Hazards Statements

H302	Harmful if swallowed
H315	Causes Skin Irritation
H319	Causes Serious Eye Irritation
H335	May Cause Respiratory Irritation

2.4 Pictograms



2.5 Precautionary Statements:

P261	Avoid breathing dust/fumes/mist/vapors/spray
P264	Wash skin thoroughly after handling
P270	Do not eat, drink, or smoke when using this product.
P280	Wear eye protection/face protection/protective gloves
P301 + P312 + P330	If swallowed: call a POISON center/doctor if you feel unwell. Rinse mouth with water.
P302 + P352	If on skin: wash with plenty of soap and water
P305 + P351 + P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue to rinse.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

2.6 Hazards, not otherwise classified

Unknown

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
DL-dithiothreitol	C ₄ H ₁₀ O ₂ S ₂	3483-12-3	222-468-7	100 mM
Proprietary	N/A	N/A	N/A	N/A

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and chronic

Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	No Data Available.
Special hazards arising from mixture:	Hazardous fumes may be generated in case of a fire including carbon dioxide, carbon monoxide, sulfur oxides, sodium oxides, nitrogen oxides, and hydrogen sulfide.
Advice for firefighters:	Wear self-contained breathing apparatus and full protective gear while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill:	Absorb onto inert material (sawdust or absorbent paper).
Cleaning-up methods:	Shovel/sweep up debris and store in a sealed plastic container for disposal.

Reference to other sections: See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Ensure adequate ventilation/exhaustion. Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle.
Packaging materials:	Store tightly sealed in original container.
Requirements for storage rooms and vessels:	Store in well ventilated area.

7.3 Specific End Use(s)

For research use only.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be used.
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Unpleasant
Odor threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Not available
Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble/supplied as solution
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	The product is stable under normal storage and usage conditions.
Possibility of hazardous reactions:	Under recommended conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Exposure to moisture, product is hygroscopic.
Incompatible materials:	Strong oxidizing agents, bases, alkali metals, reducing agents
Hazardous decomposition products:	Under fire conditions, dangerous fumes such as carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides, and hydrogen sulfide may be produced. See section 5 for fire fighting measures.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation, ingestion, eye and skin contact.

11.1 Acute effects

Eye: Causes eye irritation
Skin: Causes skin irritation. May be toxic.
Inhalation: Causes irritation to mucous membranes and upper respiratory tract. May be toxic.
Ingestion: May be toxic.
Toxicity: No data available.

Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available.
Other information: None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available
Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	No Data Available.
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is not regulated as dangerous goods by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material exceed threshold levels that are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

Acute Health Hazard. See section 2 for more information.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 United States of America Toxic Substances Control Act (TSCA) List

DTT is listed in the TSCA inventory. This product is for research use only.

15.7 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Listed in the DSL.

15.8 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

Listed in the inventory.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC. at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC. assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 29MAY2020

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name GAΨC (ΨTP) PreMix

Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

Avoid concentration of components by evaporation. This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC
Address	726 Post Rd
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product with the given component concentrations is not considered hazardous.

2.2 Hazards not otherwise classified

This product as provided is not considered hazardous.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
Adenosine 5'-triphosphate disodium salt	$C_{10}H_{14}N_5Na_2O_{13}P_3$	987-65-5	213-579-1	25 mM
Cytidine 5'-triphosphate disodium salt dihydrate	$C_9H_{14}N_3O_{14}P_3 \cdot Na_2 \cdot 2H_2O$	81012-87-5	815-308-8	25 mM
Pseudouridine 5'-triphosphate trisodium salt	$C_9H_{12}N_2O_{15}P_3Na_3$	1175-34-4	N/A	25 mM
Guanosine 5'-triphosphate trisodium salt	$C_{10}H_{13}N_5 Na_3O_{14}P_3$	36051-31-7	252-847-2	25 mM

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE No data available

CHRONIC No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	No Data Available.
Special hazards arising from mixture:	No Data Available.
Advice for firefighters:	Wear self-contained breathing apparatus and full protective gear while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Ensure adequate ventilation. Wear proper PPE. Do not touch or walk through spilled material.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill:	Absorb onto inert material (sawdust or absorbent paper).
Cleaning-up methods:	Shovel/sweep up debris and store in a sealed plastic container for disposal.
Reference to other sections:	See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be used.
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	Use in well ventilated areas. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Not available
Odor threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Not available
Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Not available
Oxidizing properties:	Not available
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity	No data available.
Chemical stability:	The product is stable under normal storage conditions.
Possibility of hazardous reactions:	Under recommended conditions of storage and use, hazardous reactions should not occur.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation, ingestion, eye and skin contact.

11.1 Acute effects

Eye: No data available.
Skin: No data available.
Inhalation: No data available.
Ingestion: No data available.
Toxicity: Not available

STOT-single exposure: Not available
Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available
Other information: Not available

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available
Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	Not available
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/package disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not available
UN proper shipping name:	Not available
Transport hazard class(es):	Not available
Packing group:	Not available
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

See section 2 for more information.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 United States of America Toxic Substances Control Act (TSCA) List

Ingredients are not listed in the TSCA inventory; for research use only.

15.7 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Ingredients are not listed.

15.8 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients except pseudouridine-5'-triphosphate are listed in inventory.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC at this time. The information provided within serves the purpose of guidance for safe handling, use, processing, storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 24JUN2024

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name RNase-Free DNase I, 1 U/μl

Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

Enzyme Solution. Avoid concentration of components by evaporation. This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product with the given component concentrations is not considered a hazardous mixture or substance.

2.2 Hazards not otherwise classified

This product as provided is not considered a hazardous mixture or substance.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
Deoxyribonuclease I	N/A	9003-98-9	232-667-0	1 U/μl
Glycerol	C ₃ H ₅ (OH) ₃	56-81-5	200-289-5	50 %
2-Amino-2-(hydroxymethyl)-1,3-propanediol	NH ₂ C(CH ₂ OH) ₃	77-86-1	201-064-4	50 mM
Calcium Chloride	CaCl ₂	10043-52-4	233-140-8	10 mM
Magnesium Chloride	MgCl ₂	7786-30-3	232-094-6	10 mM
Triton X-100	C ₁₆ H ₂₆ O ₂	9002-93-1	925-964-8	0.1 %

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE No data available

CHRONIC No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	None
Special hazards arising from mixture:	No Data Available.
Advice for firefighters:	Wear self-contained breathing apparatus while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill:	Absorb onto inert material (sawdust or absorbent paper).
Cleaning-up methods:	Shovel/sweep up debris and store in a sealed plastic container for disposal.
Reference to other sections:	See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Glycerol (CAS 56-81-5)	TWA	USA	5 mg/m ³ , mist, respirable fraction 15 mg/m ³ , mist, total particulate	Cal/OSHA PEL

8.2 Engineering controls

Safety shower, eye wash station, and ventilation systems

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be used.
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	General ventilation is sufficient to control worker exposure to airborne contaminants. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Not available
Odor threshold:	Not available
pH:	7.5
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Not available
Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Not available
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity	No data available.
Chemical stability:	The product is stable under normal storage conditions.
Possibility of hazardous reactions:	Under recommended conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Under normal conditions of storage and use, no hazardous decomposition products are known to be produced.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation, ingestion, eye and skin contact.

11.1 Acute effects

Eye: Not available.
Skin: Not available.
Inhalation: Not available.
Ingestion: Not available.
Toxicity: Not available.

Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available.
Other information: None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available
Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	No known significant effects or critical hazards.
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is classified as not hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA 311/312 Hazards

See section 2 for more information.

15.5 Pennsylvania Right-To-Know Hazardous Substances

Glycerol (CAS# 56-81-5): Present

15.6. New Jersey Worker and Community Right-To-Know Components

Glycerol (CAS# 56-81-5): Present

15.7 Massachusetts Right-To-Know Substance List

No ingredients are listed.

15.8 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.9 United States of America Toxic Substances Control Act (TSCA) List

All ingredients are listed in the TSCA inventory.

15.10 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

All ingredients are listed.

15.11 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 24JUN2024

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name ScriptCap™ Capping Enzyme

Product Number Component of Kit

1.2 Recommended Use and Restrictions on Use

Avoid concentration of components by evaporation. This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9 am-5 pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product with given component concentrations is not considered hazardous.

2.2 Hazards not otherwise classified

This product as provided is not considered hazardous.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
ScriptCap™ Capping Enzyme	NA	56941-23-2	NA	15 U/μl
Glycerol	C ₃ H ₅ (OH) ₃	56-81-5	200-289-5	50%
2-Amino-2-(hydroxymethyl)-1,3-propanediol	C ₄ H ₁₁ NO ₃	77-86-1	201-064-4	50 mM
Sodium Chloride	NaCl	7647-14-5	231-598-3	0.1 M
Dithiothreitol (DTT)	C ₄ H ₁₀ O ₂ S ₂	3483-12-3	222-468-7	1 mM
Ethylenediaminetetraacetic acid (EDTA), disodium dihydrate	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2H ₂ O	6381-92-6	205-358-3	0.1 mM
Triton-X100	C ₁₆ H ₂₆ O ₂	9002-93-1	618-344-0	0.1%

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE No data available.

CHRONIC No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide where appropriate.
Unsuitable extinguishing media:	No Data Available.
Special hazards arising from mixture:	Carbon Oxides, Nitrogen Oxides, Sodium Oxides, and sulfur oxide gas may be produced under fire conditions.
Advice for firefighters:	Wear self-contained breathing apparatus and full protective gear while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill:	Absorb onto inert material (sand or absorbent paper).
Cleaning-up methods:	Shovel/sweep up debris and store in a sealed plastic container for disposal.
Reference to other sections:	See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle. Do not store at -70°C.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Glycerol (CAS 56-81-5)	TWA	USA	5 mg/m ³ , mist, respirable fraction 15 mg/m ³ , mist, total particulate	Cal/OSHA PEL

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA).
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	Good general ventilation is sufficient to control worker exposure to airborne contaminants. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Odorless
Odor threshold:	None
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Not available
Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	The product is stable under normal storage and usage conditions.
Possibility of hazardous reactions:	Under recommended conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents, bases, alkali metals, reducing agents.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation, ingestion, eye and skin contact.

11.1 Acute effects

Eye: May cause irritation
Skin: May cause irritation
Inhalation: May cause irritation to mucous membranes and upper respiratory tract.
Ingestion: May be toxic
Toxicity: Not available.

Skin corrosion/irritation: Not available.
Serious eye damage/irritation: Not available.
Respiratory or skin sensitization: Not available.
STOT-single exposure: Not available
Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available.
Other information: None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available
Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	No known significant effects or critical hazards.
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/package disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is not considered hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

See section 2 for more information.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 Pennsylvania Right to Know Components

Glycerol (CAS# 56-81-5): Present

15.7 New Jersey Right to Know Components

Glycerol (CAS# 56-81-5): Present

15.8 United States of America Toxic Substances Control Act (TSCA) List

All ingredients except EDTA disodium dihydrate and capping enzyme are listed in the TSCA inventory. This product is for research use only.

15.9 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

All ingredients except capping enzyme are listed.

15.10 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients except capping enzyme are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 24JUN2024

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name ScriptCap™ 2'-O-Methyltransferase

Product Number Component of Kit

1.2 Recommended Use and Restrictions on Use

This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9 am-5 pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product with given component concentrations is not considered hazardous.

2.2 Hazards not otherwise classified

This product as provided is not considered hazardous.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
2'-0-Methyltransferase	NA	61970-02-3	NA	110 U/μl
Glycerol	C ₃ H ₅ (OH) ₃	56-81-5	200-289-5	50%
2-Amino-2-(hydroxymethyl)-1,3-propanediol	C ₄ H ₁₁ NO ₃	77-86-1	201-064-4	50 mM
Sodium Chloride	NaCl	7647-14-5	231-598-3	0.1 M
Dithiothreitol (DTT)	C ₄ H ₁₀ O ₂ S ₂	3483-12-3	222-468-7	1 mM
Ethylenediaminetetraacetic acid (EDTA), disodium dihydrate	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2H ₂ O	6381-92-6	205-358-3	0.1 mM
Triton-X100	C ₁₆ H ₂₆ O ₂	9002-93-1	618-344-0	0.1%

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE: No data available.

CHRONIC: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide where appropriate.
Unsuitable extinguishing media:	No Data Available.
Special hazards arising from mixture:	Carbon Oxides, Nitrogen Oxides, Sodium Oxides, and Sulfur Oxide gas may be produced under fire conditions.
Advice for firefighters:	Wear self-contained breathing apparatus and full protective gear while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill:	Absorb onto inert material (sand or absorbent paper).
Cleaning-up methods:	Shovel/sweep up debris and store in a sealed plastic container for disposal.
Reference to other sections:	See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle. Do not store at -70°C.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Glycerol (CAS 56-81-5)	TWA	USA	5 mg/m ³ , mist, respirable fraction 15 mg/m ³ , mist, total particulate	Cal/OSHA PEL

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA).
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	Ensure adequate ventilation. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Not available
Odor threshold:	None
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Not available
Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	The product is stable under normal storage and usage conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents, bases, alkali metals, reducing agents.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products are not known to be produced.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation, ingestion, eye and skin contact.

11.1 Acute effects

Eye: May causes irritation
Skin: May cause irritation
Inhalation: May cause irritation to mucous membranes and upper respiratory tract.
Ingestion: May be toxic
Toxicity: Not available.

Skin corrosion/irritation: Not available.
Serious eye damage/irritation: Not available.
Respiratory or skin sensitization: Not available.
STOT-single exposure: Not available
Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available.
Other information: None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available
Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	No known significant effects or critical hazards.
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/package disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewers, and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is not considered hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

See section 2 for more information.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 Pennsylvania Right to Know Components

Glycerol (CAS# 56-81-5): Present

15.7 New Jersey Right to Know Components

Glycerol (CAS# 56-81-5): Present

15.8 United States of America Toxic Substances Control Act (TSCA) List

All ingredients except for EDTA disodium dihydrate and 2'-O-methyltransferase are listed in the TSCA inventory. This product is for research use only.

15.9 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

All ingredients except for 2'-O-methyltransferase are listed; for research use only.

15.10 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients except for 2'-O-methyltransferase are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 24JUN2024

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name 10X ScriptCap™ Capping Buffer

Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

Enzyme reaction buffer. Avoid concentration of components by evaporation. This product is for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product with the given component concentrations is not considered hazardous.

2.2 Hazards not otherwise classified

This product as provided is not considered hazardous.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
2-Amino-2-(hydroxymethyl)-1,3-propanediol	C ₄ H ₁₁ NO ₃	77-86-1	201-064-4	0.5 M
Potassium Chloride	KCl	7447-40-7	231-211-8	60 mM
Magnesium Chloride	MgCl ₂ •6H ₂ O	7791-18-6	232-094-6	12.5 mM

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

- Eye:** Remove contact lenses, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.
- Skin:** Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.
- Inhalation:** Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.
- Ingestion:** Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE No data available

CHRONIC No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	No Data Available.
Special hazards arising from mixture:	Hydrogen chloride gas, magnesium oxide, potassium oxide may be produced under fire conditions.
Advice for firefighters:	Wear self-contained breathing apparatus and appropriate PPE while extinguishing the fire. Avoid concentration to solids by evaporation.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill:	Absorb onto inert material (sawdust or absorbent paper).
Cleaning-up methods:	Shovel/sweep up debris and store in a sealed plastic container for disposal.
Reference to other sections:	See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	Store in well ventilated area.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA).
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be used when handling substance.
Respiratory protection:	Use in a well-ventilated area. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Not available
Odor threshold:	None
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Not available
Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity	No data available.
Chemical stability:	Avoid concentration of liquid, stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid concentration of liquid mixture to solids.
Incompatible materials:	Strong oxidizing agents, metals.
Hazardous decomposition products:	No data available.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation; ingestion, eye and skin contact.

11.1 Acute effects

Eye: May cause irritation.
Skin: May cause irritation
Inhalation: May cause irritation to mucous membranes and upper respiratory tract.
Ingestion: Not available.
Toxicity: Not available.

STOT-single exposure: Not available
Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available.
Other information: None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available
Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	None
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is not considered hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

See section 2 for more information.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 United States of America Toxic Substances Control Act (TSCA) List

All ingredients are listed in the TSCA inventory.

15.7 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

All ingredients are listed.

15.8 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 24JUN2024

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name 20 mM S-adenosyl-methionine (SAM)
Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

Avoid concentration of components by evaporation. This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC.
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product with the given component concentrations is not considered hazardous.

2.2 Hazards not otherwise classified

This product as provided is not considered hazardous.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
S—(5'-Adenosyl)-L-methionine <i>p</i> -toluenesulfonate	$C_{15}H_{22}N_6O_5S \bullet C_7H_8O_3S$	52248-03-0	N/A	20 mM

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE No data available
CHRONIC No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: None

Special hazards arising from mixture: Carbon oxides, Nitrogen oxides, Sulphur oxides.

Advice for firefighters: Wear self-contained breathing apparatus while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Do not touch or walk through spilled material. Ensure good ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill: Absorb onto inert material (sawdust or absorbent paper).

Cleaning-up methods: Shovel/sweep up debris and store in a sealed plastic container for disposal.

Reference to other sections: See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle. Reagent is heat sensitive.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be used.
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	Use in well ventilated area. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Not available.
Odor threshold:	None
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Unknown
Upper flammability/explosive limit:	Unknown
Vapor pressure:	Not available

Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	The product is stable under normal storage and usage conditions.
Possibility of hazardous reactions:	Under recommended conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Avoid heat, which may affect product quality.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions. See section 5 in the event of a fire.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation; ingestion, eye and skin contact.

11.1 Acute effects

Eye:	Not available
Skin:	Not available.
Inhalation:	Not available.
Ingestion:	Not available.
Toxicity:	Not available.
Skin corrosion/irritation:	Not available.
Serious eye damage/irritation:	Not available.
Respiratory or skin sensitization:	Not available.
STOT-single exposure:	Not available
Chronic health effects:	Not available
Carcinogenicity:	Not available
Germ cell mutagenicity:	Not available
Reproductive toxicity:	Not available

Developmental:	Not available
Fertility:	Not available
STOT-repeated exposure:	Not available
Aspiration hazard:	Not available.
Other information:	None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity:	Not available
Chronic toxicity:	Not available
Eco/aquatic toxicity:	Not available

12.2 Persistence and Degradability

Abiotic degradation:	Not available
Physical- and photo-chemical elimination:	Not available
Biodegradation:	Not available
Bioaccumulative potential:	Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
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PvB results: Not available

12.6 Other adverse effects

Additional information: No known significant effects or critical hazards.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is considered not hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

See section 2 for more information.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 United States of America Toxic Substances Control Act (TSCA) List

Ingredients are not listed in the TSCA inventory; for research use only.

15.7 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Ingredients are not listed; for research use only.

15.8 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

Ingredients are not listed. .

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSRIPT, LLC. at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSRIPT, LLC. assumes no liability for damage resulting from handling or contact with this product.

16.4 Document Revision

Last Revision Date: 15JAN2021

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name 20 mM GTP
Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

Avoid concentration of components by evaporation. This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC.
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product as provided is not considered hazardous.

2.2 Hazards not otherwise classified

This product as provided is not considered hazardous.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
Guanosine 5'-triphosphate trisodium salt	$C_{10}H_{13}N_5O_{14}P_3 \cdot Na_3 \cdot H_2O$	36051-31-7	252-847-2	20 mM

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE No data available
CHRONIC No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: No Data Available.

Special hazards arising from mixture: No Data Available.

Advice for firefighters: Wear self-contained breathing apparatus and protective equipment while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill: Absorb onto inert material (sand or absorbent paper).

Cleaning-up methods: Shovel/sweep up debris and store in a sealed plastic container for disposal.

Reference to other sections: See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be worn.
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	Good general ventilation is sufficient to control worker exposure to airborne contaminants. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Odorless
Odor threshold:	None
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Not available
Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	The product is stable under normal storage and usage conditions.
Possibility of hazardous reactions:	Under recommended conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation, ingestion, eye and skin contact.

11.1 Acute effects

Eye:	Not available.
Skin:	Not available.
Inhalation:	Not available.
Ingestion:	Not available.
Toxicity:	Not available.
Chronic health effects:	Not available
Carcinogenicity:	Not available
Germ cell mutagenicity:	Not available
Reproductive toxicity:	Not available
Developmental:	Not available
Fertility:	Not available
STOT-repeated exposure:	Not available
Aspiration hazard:	Not available.
Other information:	None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity:	Not available
Chronic toxicity:	Not available
Eco/aquatic toxicity:	Not available

12.2 Persistence and Degradability

Abiotic degradation:	Not available
Physical- and photo-chemical elimination:	Not available
Biodegradation:	Not available
Bioaccumulative potential:	Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	No known significant effects or critical hazards.
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by chemical incinerator.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is classified as not hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

See section 2 for more information.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 United States of America Toxic Substances Control Act (TSCA) List

Ingredients are not listed in the TSCA inventory; for research use only.

15.7 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Ingredients are not listed.

15.8 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC. at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC. assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 02JUN2020

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name A-Plus™ Poly(A) Polymerase 4 U/μl
Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

Enzyme Solution. Avoid concentration of components by evaporation. This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC.
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

This product with the given component concentrations is not considered a hazardous mixture or substance.

Hazards not otherwise classified: No data available. This product as provided is not considered a hazardous mixture or substance.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
A-Plus™ Poly(A) Polymerase	N/A	N/A	N/A	4 U/μl
Glycerol	C ₃ H ₅ (OH) ₃	56-81-5	200-289-5	50 %
2-Amino-2-(hydroxymethyl)-1,3-propanediol	C ₄ H ₁₁ NO ₃	77-86-1	201-064-4	50 mM
Sodium Chloride	NaCl	7647-14-5	231-598-3	0.5 M
Dithiothreitol	C ₄ H ₁₀ O ₂ S ₂	3483-12-3	222-468-7	1 mM
EDTA Disodium Dihydrate	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ •2H ₂ O	6381-92-6	205-358-3	0.1 mM
Triton X-100	C ₁₆ H ₂₆ O ₂	9002-93-1	925-964-8	0.1 %

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE No data available

CHRONIC No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	None
Special hazards arising from mixture:	No Data Available.
Advice for firefighters:	Wear self-contained breathing apparatus while extinguishing the fire. Wear appropriate PPE.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill: Absorb onto inert material (sawdust or absorbent paper).

Cleaning-up methods: Shovel/sweep up debris and store in a sealed plastic container for disposal.

Additional information pertaining to the spill: Bulk materials and spill debris (>10 ml) should be disposed of as hazardous waste.

Reference to other sections: See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.
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General hygiene advice: Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.

Measures to prevent fire: Not available

Measures to prevent aerosol/dust generation: Not available

Measures to protect the environment: Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions: Store at -20°C in a freezer without a defrost cycle. Avoid concentration to solids by evaporation.

Packaging materials: Store in original container.

Requirements for storage rooms and vessels: Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Glycerol (CAS 56-81-5)	TWA	USA	5 mg/m ³ , mist, respirable fraction 15 mg/m ³ , mist, total particulate	Cal/OSHA PEL

8.2 Engineering controls

Safety shower, eye wash station, ventilation systems

8.3 Personal protection equipment

Eye/face protection: Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be used.

Skin/body protection: Wear lab coat.

Hand protection: Latex, nitrile or rubber gloves should be worn when handling substance.

Respiratory protection: Use in a well-ventilated area. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Not available
Odor threshold:	Not available
pH:	7.5
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Unknown
Upper flammability/explosive limit:	Unknown
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	None
Oxidizing properties:	None
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity	No data available.
Chemical stability:	The product is stable under normal recommended storage conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents, strong bases.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation; ingestion, eye and skin contact.

11.1 Acute effects

Eye: Redness and soreness.
Skin: Redness, rash, burning, dry and itching skin.
Inhalation: Nasal irritation, headache, cough, shortness of breath.
Ingestion: Malaise, dizziness, nausea, gastrointestinal burns.
Toxicity: Not available.

Skin corrosion/irritation: Mild.
Serious eye damage/irritation: Mild.
Respiratory or skin sensitization: Mild.
STOT-single exposure: Not available
Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available.
Other information: None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available

Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm: Not available
Chemical oxygen demand at 10 ppm: Not available
Biological oxygen demand-5 at 10 ppm: Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension: Not available
Absorption/desorption: Not available
Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment

PBT results: Not available
PvB results: Not available

12.6 Other adverse effects

Additional information: No known significant effects or critical hazards.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is classified as not hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA 311/312 Hazards

See section 2 for more information.

15.5 Pennsylvania Right-To-Know Hazardous Substances

Glycerol (CAS# 56-81-5): Present

15.6. New Jersey Worker and Community Right-To-Know Components

Glycerol (CAS# 56-81-5): Present

15.7 Massachusetts Right-To-Know Substance List

No ingredients are listed.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 United States of America Toxic Substances Control Act (TSCA) List

All ingredients except A-Plus Poly(A) Polymerase are listed in the TSCA inventory.

15.7 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

All ingredients except A-Plus Poly(A) Polymerase are listed.

15.8 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients except A-Plus Poly(A) Polymerase are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC. at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC. assumes no liability for damage resulting from handling or contact with this product.

16.4 Document Revision

Last Revision Date: 08MAY2020

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name 10X A-Plus™ Poly(A) Tailing Buffer

Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

Enzyme reaction buffer. Avoid concentration of components by evaporation. This product is for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product with the given component concentrations is not considered hazardous.

2.2 Hazards not otherwise classified

This product as provided is not considered hazardous.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
2-Amino-2-(hydroxymethyl)-1,3-propanediol	C ₄ H ₁₁ NO ₃	77-86-1	201-064-4	0.5 M
Sodium Chloride	NaCl	7647-14-5	231-598-3	2.5 M
Magnesium Chloride	MgCl ₂ •6H ₂ O	7791-18-6	232-094-6	100 mM

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Eye irritation: Remove contact lenses, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE No data available

CHRONIC No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	No Data Available.
Special hazards arising from mixture:	No Data Available.
Advice for firefighters:	Wear self-contained breathing apparatus and full protective gear while extinguishing the fire. Avoid concentration to solids by evaporation.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill:	Absorb onto inert material (sawdust or absorbent paper).
Cleaning-up methods:	Shovel/sweep up debris and store in a sealed plastic container for disposal.
Reference to other sections:	See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA).
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be used when handling substance.
Respiratory protection:	Use in a well-ventilated area. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Not available
Odor threshold:	None
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Unknown
Upper flammability/explosive limit:	Unknown
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity	No data available.
Chemical stability:	Avoid concentration of liquid, stable under normal recommended storage and usage conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid concentration of liquid mixture to solids.
Incompatible materials:	Strong oxidizing agents, bases.
Hazardous decomposition products:	No data available.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation; ingestion, eye and skin contact.

11.1 Acute effects

Eye: Not available.
Skin: Not available.
Inhalation: Not available.
Ingestion: Not available.
Toxicity: Not available.

Skin corrosion/irritation: Not available
Serious eye damage/irritation: Not available
Respiratory or skin sensitization: Not available.
STOT-single exposure: Not available
Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available.
Other information: None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available
Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	None
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product, as supplied, is not considered hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

See section 2 for more information.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 United States of America Toxic Substances Control Act (TSCA) List

All ingredients are listed in the TSCA inventory.

15.7 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

All ingredients are listed.

15.8 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 24JUN2024

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name 20 mM ATP
Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

Avoid concentration of components by evaporation. This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC.
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product as provided is not considered hazardous.

2.2 Hazards not otherwise classified

This product as provided is not considered hazardous.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
Adenosine 5'-triphosphate disodium salt	$C_{10}H_{14}N_5O_{13}P_3 \bullet Na_2 \bullet H_2O$	34369-07-8	213-579-1	20 mM

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE No data available
CHRONIC No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: No Data Available.

Special hazards arising from mixture: Nitrogen oxides, carbon monoxide, carbon dioxide, oxides of phosphorus.

Advice for firefighters: Wear self-contained breathing apparatus and appropriate PPE while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill: Absorb onto inert material (sand or absorbent paper).

Cleaning-up methods: Shovel/sweep up debris and store in a sealed plastic container for disposal.

Reference to other sections: See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA).
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	Good general ventilation is sufficient to control worker exposure to airborne contaminants. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Odorless
Odor threshold:	None
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available

Flammability:	Not available
Lower flammability/explosive limit:	Not available
Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	The product is stable under normal storage and usage conditions.
Possibility of hazardous reactions:	Under recommended conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire, see section 5.

SECTION 11: Toxicological Information

Likely routes of exposure:	Inhalation, ingestion, eye and skin contact.
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11.1 Acute effects

Eye:	Not available.
Skin:	Not available.
Inhalation:	Not available.
Ingestion:	Not available.
Toxicity:	Not available.
Chronic health effects:	Not available
Carcinogenicity:	Not available
Germ cell mutagenicity:	Not available
Reproductive toxicity:	Not available
Developmental:	Not available
Fertility:	Not available

STOT-repeated exposure:	Not available
Aspiration hazard:	Not available.
Other information:	None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity:	Not available
Chronic toxicity:	Not available
Eco/aquatic toxicity:	Not available

12.2 Persistence and Degradability

Abiotic degradation:	Not available
Physical- and photo-chemical elimination:	Not available
Biodegradation:	Not available
Bioaccumulative potential:	Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information: No known significant effects or critical hazards.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by chemical incinerator.
Waste codes/waste designations according to LoW: Waste treatment-relevant information:	Unknown Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is considered not hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

See section 2 for more information.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 United States of America Toxic Substances Control Act (TSCA) List

Ingredients are not listed in the TSCA inventory; for research use only.

15.7 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDL)

Ingredients are not listed.

15.8 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients are listed.

SECTION 16: Other Information**16.1 Disclaimer**

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC. at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC. assumes no liability for damage resulting from handling or contact with this product.

16.4 Document Revision

Last Revision Date: 15JAN2021

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name ScriptGuard™ RNase Inhibitor

Product Number C-SRI6310K. Also a component of kit.

1.2 Recommended Use and Restrictions on Use

Avoid concentration of components by evaporation. This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product as supplied is not considered hazardous.

2.2 Signal Word

None, not considered hazardous as supplied.

2.3 Hazard Statements

None, not considered hazardous as supplied.

2.4 Pictograms

None

2.5 Precautionary Statements

None, not considered hazardous as supplied.

2.6 Hazards not otherwise classified

No data available. This product as provided is not considered a hazardous mixture or substance.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical Name	Formula	CAS number	EC number	Concentration
ScriptGuard™ RNase Inhibitor	N/A	N/A	N/A	N/A
Glycerol	C ₃ H ₈ O ₃	56-81-5	200-289-5	50%
2-Amino-2-(hydromethyl)-1,3-propanediol	C ₄ H ₁₁ NO ₃	77-86-1	201-064-4	50 mM
Sodium chloride	NaCl	7647-14-5	231-598-3	100 mM
Dithiothreitol (DTT)	C ₄ H ₁₀ O ₂ S ₂	3483-12-3	222-468-7	10 mM
Ethylenediaminetetraacetic acid (EDTA) Disodium Salt Dihydrate	C ₁₀ H ₁₄ N ₂ O ₈ •2H ₂ O	6381-92-6	205-358-3	0.1 mM
Triton X-100	C ₁₄ H ₂₂ O(C ₂ H ₄ O) _n (n=9-10)	9002-93-1	618-344-0	0.1%

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye:	Gently flush with water, remove contact lenses if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.
Skin:	Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.
Inhalation:	Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.
Ingestion:	Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and chronic

Acute and Delayed: No data available

Chronic: No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	No Data Available.
Special hazards arising from mixture:	Carbon oxides, nitrogen oxides, sodium oxides, and sulfur oxide gas may be produced under fire conditions.
Advice for firefighters:	Wear self-contained breathing apparatus and full protective gear while extinguishing the fire. Avoid concentration to solids by evaporation.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE for clean-up. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill: Absorb onto inert material (sawdust or absorbent paper).
Cleaning-up methods: Shovel/sweep up debris and store in a sealed plastic container for disposal.
Additional information pertaining to the spill: Bulk materials and spill debris should be disposed of as hazardous waste.
Reference to other sections: See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling: Ensure adequate ventilation/exhaustion. Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice: Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire: Not available
Measures to prevent aerosol/dust generation: Not available
Measures to protect the environment: Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions: Store at -20°C in a freezer without a defrost cycle. Do not store at -70°C.
Packaging materials: Store in original container.
Requirements for storage rooms and vessels: No data available

7.3 Specific End Use(s)

For research use only.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Glycerol (CAS 56-81-5)	TWA	USA	5 mg/m ³ , mist, respirable fraction 15 mg/m ³ , mist, total particulate	CAL/OSHA PEL

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection: Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be worn.

Skin/body protection: Wear lab coat.

Hand protection: Latex, nitrile or rubber gloves should be worn when handling substance.

Respiratory protection: Use in well ventilated area. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Not available
Odor threshold:	Not available
pH:	7.5
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Unknown
Upper flammability/explosive limit:	Unknown
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Unknown
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No dangerous reactions known under normal storage and usage conditions.
Chemical stability:	The product is stable under normal storage and usage conditions.
Possibility of hazardous reactions:	Under recommended conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Avoid concentration of liquid mixture to solids.
Incompatible materials:	Strong oxidizing agents, bases, alkali metals, and reducing agents
Hazardous decomposition products:	Under normal conditions of storage and use, no hazardous decomposition products are known to be produced. See section 5 for hazardous gases produced under fire conditions.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation; ingestion, eye and skin contact.

11.1 Acute effects

Eye: Redness and soreness.
Skin: Redness, rash, burning, dry, and itching skin.
Inhalation: Nasal irritation, headache, cough, shortness of breath.
Ingestion: Malaise, dizziness, and nausea, gastrointestinal burns.
Toxicity: Not available

Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available.
Other information: None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available
Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	No Data Available
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is not regulated as dangerous goods by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not available
UN proper shipping name:	Not available
Transport hazard class(es):	Not available
Packing group:	Not available
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are at levels that exceed threshold levels subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA 311/312 Hazards

Should EPCRA 311/312 reporting criteria be met, see section 2 for hazard information and classifications.

15.5 Massachusetts Right-To-Know Substance List

Not listed

15.6 Pennsylvania Right-To-Know hazardous Substances

Glycerol (CAS# 56-81-5): Present

15.7 New Jersey Worker and Community Right-To-Know components

Glycerol (CAS# 56-81-5): Present

15.8 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.9 United States of America Toxic Substances Control Act (TSCA) List

All ingredients except EDTA disodium dihydrate, are listed in the TSCA Inventory.
This product is for research use only.

15.10 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

All ingredients are listed.

15.11 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date:24JUN2024

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name RNase-Free Water

Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product is not considered hazardous.

2.2 Signal Word

None, not considered hazardous as supplied.

2.3 Hazard Statements

None, not considered hazardous as supplied.

2.4 Pictograms

None

2.5 Precautionary Statements

None, not considered hazardous as supplied.

2.6 Hazards not otherwise classified

No data available. This product as provided is not considered a hazardous mixture or substance.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
Water	H ₂ O	7732-18-5	231-791-2	N/A

Impurities: Not Known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Gently wash the contaminated area with plenty of soap and water for at least 15 minutes.

Inhalation: Not expected to be an inhalation hazard under anticipated normal use conditions. If feeling unwell, consult a physician.

Ingestion: Rinse mouth with water. Do not induce vomiting. If feeling unwell, consult a physician.

4.2 Most important symptoms and effects, both acute and chronic

Acute and Delayed: No data available

Chronic: No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	No Data Available.
Special hazards arising from mixture:	No Data Available.
Advice for firefighters:	Wear self-contained breathing apparatus and full protective gear while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Keep unnecessary people away from spill. Wear proper PPE for clean up. Do not touch or walk through spilled material. Ensure adequate ventilation.

Environmental precautions:

No special environmental precautions known.

Methods and material for containment and cleaning up.

How to contain spill:	Absorb onto inert material (sawdust or absorbent paper).
Cleaning-up methods:	Shovel/sweep up debris and store in a sealed plastic container for disposal.
Reference to other sections:	See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Ensure adequate ventilation/exhaustion. Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Remove contaminated clothing and protective equipment when leaving work areas.
General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	No data available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be used.
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	Use in well ventilated area. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

No special environmental precautions known.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Odorless
Odor threshold:	Not available
pH:	Not available
Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	100 °C
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Unknown
Upper flammability/explosive limit:	Unknown
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	1.0
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No dangerous reactions known under recommended storage and usage conditions.
Chemical stability:	The product is stable under recommended storage and usage conditions.
Possibility of hazardous reactions:	Under recommended conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No data available.
Incompatible materials:	No data available.
Hazardous decomposition products:	No data available.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation, ingestion, eye and skin contact.

11.1 Acute effects

Eye: No data available.
Skin: No data available.
Inhalation: No data available.
Ingestion: No data available.
Toxicity: No data available.

Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available.
Other information: None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available
Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	No Data Available.
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/package disposal:	Dispose of material in accordance with all federal, state, and local regulations.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Not available.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is not regulated as dangerous goods by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

15.3 Massachusetts Right-To-Know Substance List

Not listed

15.4 Pennsylvania Right-To-Know hazardous Substances

Not listed

15.5 New Jersey Worker and Community Right-To-Know components

Not listed

15.6 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.7 United States of America Toxic Substances Control Act (TSCA) List

Listed in the TSCA Inventory.

15.8 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Listed.

15.9 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

Listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 24JUN2024

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name 5 M Ammonium Acetate
Product Number Component of Kit

1.2 Recommended Use and Restrictions on Use

Avoid concentration of components by evaporation. This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC.
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9 am-5 pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product as provided is not considered hazardous.

2.2 Hazards not otherwise classified

This product as provided is not considered hazardous.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
Ammonium Acetate	C ₂ H ₇ NO ₂	631-61-8	211-162-9	5 M

Impurities: Not known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects

ACUTE No data available
CHRONIC No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media: Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: No Data Available.

Special hazards arising from mixture: Carbon oxides, Nitrogen oxides (NO_x)

Advice for firefighters: Wear self-contained breathing apparatus while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Wear proper PPE. Do not touch or walk through spilled material. Ensure adequate ventilation. Avoid dust formation. Avoid breathing vapors, mist, or gas

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill: Absorb onto inert material (sand or absorbent paper).

Cleaning-up methods: Shovel/sweep up debris and store in a sealed plastic container for disposal.

Reference to other sections: See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling: Use appropriate personal protective equipment. Do not get in eyes or on skin, breathe vapors or mists. Ensure good ventilation. Remove contaminated clothing and protective equipment when leaving work areas.

General hygiene advice: Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.

Measures to prevent fire: Not available

Measures to prevent aerosol/dust generation: Not available

Measures to protect the environment: Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions: Store in a cool, dry location in a tightly sealed container.

Packaging materials: Store in original container.

Requirements for storage rooms and vessels: Not available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA).
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	Good general ventilation is sufficient to control worker exposure to airborne contaminants. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Odorless
Odor threshold:	None
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Not available

Upper flammability/explosive limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	The product is stable under normal storage and usage conditions.
Possibility of hazardous reactions:	Under recommended conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents, strong acids, sodium hypochlorite.
Hazardous decomposition products:	Carbon oxides and Nitrogen oxides (NO _x)

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation, ingestion, eye and skin contact.

11.1 Acute effects

Eye:	Not available.
Skin:	Not available.
Inhalation:	Not available.
Ingestion:	Not available.
Toxicity:	Not available.

Skin corrosion/irritation:	Not available.
Serious eye damage/irritation:	Not available.
Respiratory or skin sensitization:	Not available.
STOT-single exposure:	Not available
Chronic health effects:	Not available
Carcinogenicity:	Not available
Germ cell mutagenicity:	Not available
Reproductive toxicity:	Not available
Developmental:	Not available

Fertility:	Not available
STOT-repeated exposure:	Not available
Aspiration hazard:	Not available.
Other information:	None

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity:	Not available
Chronic toxicity:	Not available
Eco/aquatic toxicity:	Not available

12.2 Persistence and Degradability

Abiotic degradation:	Not available
Physical- and photo-chemical elimination:	Not available
Biodegradation:	Not available
Bioaccumulative potential:	Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information: No known significant effects or critical hazards.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations. Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by chemical incinerator.
Waste codes/waste designations according to LoW: Waste treatment-relevant information:	Unknown Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Prevent material from entering drains, sewer and waterways.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is classified as not hazardous and is not regulated by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.4 SARA311/312 Hazards

See section 2 for more information.

15.5 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.6 United States of America Toxic Substances Control Act (TSCA) List

Chemical is listed in the TSCA inventory.

15.7 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Chemical is listed on the DSL/NDSL.

15.8 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

All ingredients are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC. at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC. assumes no liability for damage resulting from handling or contact with this product.

16.4 Document Revision

Last Revision Date: 14JAN2021

Safety Data Sheet

Classification in accordance with Global Harmonizing System (GHS)

Note: This product is deemed non-hazardous

SECTION 1: Identification of The Substance/Mixture and of the Company Undertaking

1.1 Product Identifier

Product Name T7 Control Template DNA
Product Number Component of kit.

1.2 Recommended Use and Restrictions on Use

This product is a laboratory reagent for research and development use only.

1.3 Details of the Supplier of the Safety Data Sheet

Company	CELLSCRIPT™, LLC.
Address	726 Post Rd.
City, State, Zip Code	Madison, WI 53713
Country	USA
Telephone Number	888-826-5586
Email Address	customerservice@cellscript.com
Emergency Telephone Number	1-608-442-6484 Monday to Friday 9am-5pm CST

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance or Mixture

This product is not considered hazardous.

2.2 Signal Word

None, not considered hazardous as supplied.

2.3 Hazard Statements

None, not considered hazardous as supplied.

2.4 Pictograms

None

2.5 Precautionary Statements

None, not considered hazardous as supplied.

2.6 Hazards not otherwise classified

No data available. This product as provided is not considered a hazardous mixture or substance.

SECTION 3: Composition / Information on Ingredients

3.1 Components of Substance or Mixture

Chemical name	Formula	CAS number	EC number	Concentration
Tris(hydroxymethyl)amino methane	$(\text{HOCH}_2)_3\text{CNH}_2$	77-86-1	201-064-4	10 mM
Ethylenediaminetetraacetic acid (EDTA) disodium salt dihydrate	$\text{C}_{10}\text{H}_{14}\text{N}_2\text{Na}_2\text{O}_8 \cdot 2\text{H}_2\text{O}$	6381-92-6	613-386-6	1 mM

Impurities: Not Known.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Eye: Gently flush with water, remove contact lenses, if present, hold eye lids open and flush eye with plenty of water (or buffered saline eye wash) for at least 15 minutes. If eye irritation occurs, get medical advice/attention.

Skin: Remove contaminated clothing and wash before reuse. Gently wash the contaminated area with plenty of soap and water for at least 15 minutes. If skin irritation or rash develops, get medical advice/attention.

Inhalation: Move person to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR), avoid mouth-to-mouth; give artificial respiration and get medical attention. If respiratory irritation, dizziness, nausea occurs, get medical advice/attention.

Ingestion: Rinse mouth with water. Do not induce vomiting. Consult a physician.

4.2 Most important symptoms and effects, both acute and chronic

Acute and Delayed: No data available

Chronic: No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	No Data Available.
Special hazards arising from mixture:	No Data Available.
Advice for firefighters:	Wear self-contained breathing apparatus and full protective gear while extinguishing the fire.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment (PPE) and emergency procedures.

Personal precautions and protective equipment (PPE):

Depending on the extent of release, consider the need for trained firefighters/ emergency responders with adequate PPE for cleaning up. Keep unnecessary people away. Ensure adequate ventilation. Wear proper PPE for clean up.

Environmental precautions:

Prevent spills from entering storm sewers, drains or waterways. Prevent release to the environment.

Methods and material for containment and cleaning up.

How to contain spill: Absorb onto inert material (sawdust or absorbent paper).

Cleaning-up methods: Shovel/sweep up debris and store in a sealed plastic container for disposal.

Reference to other sections: See section 8 for further information on protective clothing and equipment, see section 13 for advice on waste disposal.

SECTION 7: Handling and Storage

7.1 Safe handling

Precautions for safe handling:	Ensure adequate ventilation/exhaustion. Use appropriate personal protective equipment. Do not get in eyes or on skin. Do not breathe vapors or mists. Remove contaminated clothing and protective equipment when leaving work areas.
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General hygiene advice:	Use good industrial hygiene and safety practices. Wash hands before breaks, in use, and at the end of the workday.
Measures to prevent fire:	Not available
Measures to prevent aerosol/dust generation:	Not available
Measures to protect the environment:	Not available

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions:	Store at -20°C in a freezer without a defrost cycle.
Packaging materials:	Store in original container.
Requirements for storage rooms and vessels:	No data available

7.3 Specific End Use(s)

For research use only.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

This product, as supplied, does not contain any hazardous substances with occupational exposure limits established by OSHA.

8.2 Engineering controls

Safety shower, eye wash station and ventilation systems.

8.3 Personal protection equipment

Eye/face protection:	Safety glasses with side shields or goggles approved by government standards such as NIOSH (US), CEN (EU) and WHMIS (CA) should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes or mists.
Skin/body protection:	Wear lab coat.
Hand protection:	Latex, nitrile or rubber gloves should be worn when handling substance.
Respiratory protection:	Use in well ventilated area. In case of insufficient ventilation, respirators should be used that have been tested and approved by appropriate government standards such as NIOSH.

8.4 General health & safety measures

Use clean laboratory practices and personal protection equipment

8.5 Environmental exposure controls

No special environmental precautions known.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance/color	Clear
Odor:	Not available
Odor threshold:	Not available
pH:	7.5
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash Point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Lower flammability/explosive limit:	Unknown
Upper flammability/explosive limit:	Unknown
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Water soluble
Partition coefficient: n-octanol/water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Explosive properties:	Unknown
Oxidizing properties:	Unknown
Other information:	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	The product is stable under recommended storage and usage conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	No data available.

SECTION 11: Toxicological Information

Likely routes of exposure: Inhalation, ingestion, eye and skin contact.

11.1 Acute effects

Eye: No data available.
Skin: No data available.
Inhalation: No data available.
Ingestion: No data available.
Toxicity: No data available.

Chronic health effects: Not available
Carcinogenicity: Not available
Germ cell mutagenicity: Not available
Reproductive toxicity: Not available
Developmental: Not available
Fertility: Not available
STOT-repeated exposure: Not available
Aspiration hazard: Not available.
Other information: None

IARC No component of this product comprising 0.1% or more of the final mixture is identified as a probable, possible, or confirmed carcinogen by the IARC.

OSHA No component of this product comprising 0.1% or more of the final mixture is identified as a probable, possible, or confirmed carcinogen by the OSHA.

NTP No component of this product comprising 0.1% or more of the final mixture is identified as a probable, possible, or confirmed carcinogen by the NTP.

SECTION 12: Ecological Information

12.1 Ecotoxicity

Acute toxicity: Not available
Chronic toxicity: Not available
Eco/aquatic toxicity: Not available

12.2 Persistence and Degradability

Abiotic degradation: Not available
Physical- and photo-chemical elimination: Not available
Biodegradation: Not available
Bioaccumulative potential: Not available

12.3 Biological oxygen demand

Theoretical oxygen demand at 10 ppm:	Not available
Chemical oxygen demand at 10 ppm:	Not available
Biological oxygen demand-5 at 10 ppm:	Not available

12.4 Known or predicted distribution to environmental compartments

Surface tension:	Not available
Absorption/desorption:	Not available
Mobility in soil:	Not available

12.5 Results of PBT and vPvB assessment

PBT results:	Not available
PvB results:	Not available

12.6 Other adverse effects

Additional information:	No Data Available.
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product/packaging disposal:	Dispose of material in accordance with all federal, state, and local regulations.
Waste codes/waste designations according to LoW:	Unknown
Waste treatment-relevant information:	Dispose of material in accordance with all federal, state, and local regulations.
Sewage disposal-relevant information:	Not available.
Other disposal recommendations:	None

SECTION 14: Transport Information

This product is not regulated as dangerous goods by US Department of Transportation (DOT), ADR/RID (cross border) IMDG and IATA/ICAO.

UN number:	Not classified
UN proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing group:	Not classified
Environmental hazards:	Not available
Special precautions for user:	Do not transport until safety precautions have been read and understood.

SECTION 15: Regulatory Information

15.1 Occupational Safety and health Administration (OSHA) Hazards

Not listed

15.2 CERCLA

This product, as provided, does not contain ingredients with known CAS numbers that exceed the threshold reporting requirements under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Ethylenediaminetetraacetic acid (EDTA) has a reporting requirement of 5,000 pounds.

15.3 SARA 302 Components

No chemicals in this product are subject to the SARA Title III, Section 302 reporting requirements.

15.4 SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

15.5 SARA 311/312 Hazards

Should product meet reporting requirements, refer to section 2 for applicable hazard classifications.

15.6 Massachusetts Right-To-Know Substance List

Not listed

15.7 Pennsylvania Right-To-Know hazardous Substances

Not listed.

15.8 New Jersey Worker and Community Right-To-Know components

Ethylenediaminetetraacetic acid (EDTA) is listed.

15.9 California Right-To-Know hazardous Substances

Ethylenediaminetetraacetic acid (EDTA) is listed.

15.10 California Proposition 65

This product does not contain any chemicals known to the State of California to cause birth defects or other reproductive harm.

15.11 United States of America Toxic Substances Control Act (TSCA) List

Tris(hydroxymethyl)aminomethane and Ethylenediaminetetraacetic acid (EDTA) are listed.

15.12 Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Tris(hydroxymethyl)aminomethane and Ethylenediaminetetraacetic acid (EDTA) are listed.

15.13 European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified chemical Substances (ELINCS), and No Longer Polymers (NLP)

Tris(hydroxymethyl)aminomethane and Ethylenediaminetetraacetic acid (EDTA) are listed.

SECTION 16: Other Information

16.1 Disclaimer

The information provided on the SDS is the most accurate information to the best knowledge of CELLSCRIPT, LLC. at this time. The information provided within serves the purpose of guidance for safe handling, use, processing storage, transportation, disposal, and release. This document should not be considered as a warranty or quality specification. The information relates only to the specific material designated and is not valid when used in combination with other materials or within a process. CELLSCRIPT, LLC. assumes no liability for damage resulting from handling or contact with this product.

16.2 Document Revision

Last Revision Date: 06OCT2020