

MATERIAL SAFETY DATA SHEET

Telephone: (978)927-5054
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E-mail: info@neb.com
Revision Date: 10/09

**ProtoScript®AMV
LongAmp™ Taq
RT-PCR Kit
E5300**

SECTION 1—CHEMICAL INFORMATION

Product Name: dATP

Sara 313: No

Cas.# 1927-31-7

SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

1. Water Cas.# 7732-18-5
2. 2' Deoxyadenosine 5'-triphosphate disodium salt Molecular weight: 535.15 Formula: $C_{10}H_{14}N_5Na_2O_{12}P_3$

SECTION 3—HAZARDOUS IDENTIFICATION

Emergency Overview: The hazards identified with this product are those associated with the following component: None

OSHA Hazards: Irritant

HMIS Rating

Health: 1
Flammability: 0
Reactivity: 0

NFPA Rating

Health: 1
Flammability: 0
Reactivity: 0

SECTION 4—FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 5—FIRE FIGHTING MEASURES

Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire and Explosion Hazards: Combustible liquid. Emits toxic fumes under fire conditions.

Flammability: N/A

SECTION 6—ACCIDENTAL RELEASE MEASURES

Personal Precautions: Exercise appropriate precaution to minimize direct contact with skin or eyes. Avoid dust formation.

Environmental Precautions: Do not let product enter drains.

Methods For Cleaning Up: Cover with dry lime, sand, or soda ash. Sweep up and shovel. Place in covered container for disposal.

SECTION 7—HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation.

Storage: Keep tightly closed in a dry and well ventilated place. Store at -20°C .

SECTION 8—EXPOSURE CONTROLS/PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment: Gloves suitable to prevent exposure.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

Skin Specific: Chemical resistant

General Hygiene Measures: Wash hands thoroughly after handling. Wash contaminated clothing before use.

Respiratory Protection: None required.

SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

Color: Colorless

<u>Property</u>	<u>Value</u>	<u>Temperature or Pressure</u>
pH	N/A	
Boiling Point Range:	N/A	
Melting Point Range:	N/A	
Freezing Point:	N/A	
Vapor Pressure:	N/A	
Vapor Density:	N/A	
Volatile%:	N/A	
Viscosity:	N/A	
Auto Ignition Temp:	N/A	
Refractive Index:	N/A	
Solubility in Water:	N/A	

SECTION 10—STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Materials to Avoid: Acid chlorides, Phosphorus halides, strong oxidizing agents, strong acids, strong reducing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur dioxides.

Hazardous Polymerization: Will not occur.

SECTION 11—TOXICOLOGICAL INFORMATION

Route of Exposure

Skin Absorption: May be harmful if absorbed.

Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SECTION 12—ECOLOGICAL INFORMATION

Data not available at this time.

SECTION 13—DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14—TRANSPORT INFORMATION

DOT

Proper Shipping Name: None
Non-hazardous for air transport.

IMDG

Non-hazardous

IATA

Hazard Label: None
Non-hazardous for air transport.

SECTION 15—REGULATORY INFORMATION

OSHA Hazards: Irritant.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

Massachusetts Right To Know Components

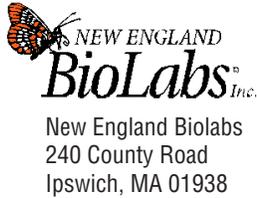
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SECTION 16—OTHER INFORMATION

DISCLAIMER

For R & D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. New England Biolabs shall not be held liable for any damage resulting from handling or from contact with the above product.



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Revision Date: 10/09

**ProtoScript® AMV
LongAmp™ Taq
RT-PCR Kit
E5300**

SECTION 1—CHEMICAL INFORMATION

Product Name: dCTP

Sara 313: No

Cas.# 102783-51-7

SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

- | | | |
|----------------------------------------------------|------------------|--------------------------------------|
| 1. Water | Cas.# 7732-18-5 | |
| 2. 2' Deoxycytidine 5'- triphosphate disodium salt | Molecular 511.12 | Formula: $C_9H_{14}N_3Na_2O_{13}P_3$ |

SECTION 3—HAZARDOUS IDENTIFICATION

Emergency Overview: The hazards identified with this product are those associated with the following component: None

OSHA Hazards: Irritant

HMIS Rating

Health: 1
Flammability: 0
Reactivity: 0

NFPA Rating

Health: 0
Flammability: 0
Reactivity: 0

SECTION 4—FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 5—FIRE FIGHTING MEASURES

Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire and Explosion Hazards: Combustible liquid. Emits toxic fumes under fire conditions.

Flammability: N/A

SECTION 6—ACCIDENTAL RELEASE MEASURES

Personal Precautions: Exercise appropriate precaution to minimize direct contact with skin or eyes. Avoid dust formation.

Environmental Precautions: Do not let product enter drains.

Methods For Cleaning Up: Cover with dry lime, sand, or soda ash. Sweep up and shovel. Place in covered container for disposal.

SECTION 7—HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation.

Storage: Keep tightly closed in a dry and well ventilated place. Store at -20°C .

SECTION 8—EXPOSURE CONTROLS/PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment: Gloves suitable to prevent exposure.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

Skin Specific: Chemical resistant

General Hygiene Measures: Wash hands thoroughly after handling. Wash contaminated clothing before use.

Respiratory Protection: None required.

SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

Color: Colorless

<u>Property</u>	<u>Value</u>	<u>Temperature or Pressure</u>
pH	N/A	
Boiling Point Range:	N/A	
Melting Point Range:	N/A	
Freezing Point:	N/A	
Vapor Pressure:	N/A	
Vapor Density:	N/A	
Volatile%:	N/A	
Viscosity:	N/A	
Auto Ignition Temp:	N/A	
Refractive Index:	N/A	
Solubility in Water:	N/A	

SECTION 10—STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Materials to Avoid: Acid chlorides, Phosphorus halides, strong oxidizing agents, strong acids, strong reducing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur dioxides.

Hazardous Polymerization: Will not occur.

SECTION 11—TOXICOLOGICAL INFORMATION

Route of Exposure

Skin Absorption: May be harmful if absorbed.

Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SECTION 12—ECOLOGICAL INFORMATION

Data not available at this time.

SECTION 13–DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14–TRANSPORT INFORMATION

DOT

Proper Shipping Name: None
Non-hazardous for air transport.

IMDG

Non-hazardous

IATA

Hazard Label: None
Non-hazardous for air transport.

SECTION 15–REGULATORY INFORMATION

OSHA Hazards: Irritant.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

Massachusetts Right To Know Components

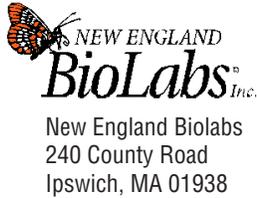
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**ProtoScript® AMV
LongAmp™ Taq
RT-PCR Kit
E5300**

SECTION 1—CHEMICAL INFORMATION

Product Name: dTTP

Sara 313: No

Cas.# 18423-43-3

SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

- | | | |
|---------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------|
| 1. Water | Cas.# 7732-18-5 | |
| 2. 2' Deoxythymidine 5'- triphosphate sodium salt | Molecular weight: 504.15 | Formula: C ₁₀ H ₁₆ N ₂ O ₁₄ P ₃ Na |

SECTION 3—HAZARDOUS IDENTIFICATION

Emergency Overview: The hazards identified with this product are those associated with the following component: None
OSHA Hazards: Irritant

HMIS Rating

Health: 1
Flammability: 0
Reactivity: 0

NFPA Rating

Health: 0
Flammability: 0
Reactivity: 0

SECTION 4—FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 5—FIRE FIGHTING MEASURES

Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire and Explosion Hazards: Combustible liquid. Emits toxic fumes under fire conditions.

Flammability: N/A

SECTION 6—ACCIDENTAL RELEASE MEASURES

Personal Precautions: Exercise appropriate precaution to minimize direct contact with skin or eyes. Avoid dust formation.

Environmental Precautions: Do not let product enter drains.

Methods For Cleaning Up: Cover with dry lime, sand, or soda ash. Sweep up and shovel. Place in covered container for disposal.

SECTION 7—HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation.

Storage: Keep tightly closed in a dry and well ventilated place. Store at -20°C .

SECTION 8—EXPOSURE CONTROLS/PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment: Gloves suitable to prevent exposure.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

Skin Specific: Chemical resistant

General Hygiene Measures: Wash hands thoroughly after handling. Wash contaminated clothing before use.

Respiratory Protection: None required.

SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

Color: Colorless

<u>Property</u>	<u>Value</u>	<u>Temperature or Pressure</u>
pH	N/A	
Boiling Point Range:	N/A	
Melting Point Range:	N/A	
Freezing Point:	N/A	
Vapor Pressure:	N/A	
Vapor Density:	N/A	
Volatile%:	N/A	
Viscosity:	N/A	
Auto Ignition Temp:	N/A	
Refractive Index:	N/A	
Solubility in Water:	N/A	

SECTION 10—STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Materials to Avoid: Acid chlorides, Phosphorus halides, strong oxidizing agents, strong acids, strong reducing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur dioxides.

Hazardous Polymerization: Will not occur.

SECTION 11—TOXICOLOGICAL INFORMATION

Route of Exposure

Skin Absorption: May be harmful if absorbed.

Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SECTION 12—ECOLOGICAL INFORMATION

Data not available at this time.

SECTION 13–DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14–TRANSPORT INFORMATION

DOT

Proper Shipping Name: None
Non-hazardous for air transport.

IMDG

Non-hazardous

IATA

Hazard Label: None
Non-hazardous for air transport.

SECTION 15–REGULATORY INFORMATION

OSHA Hazards: Irritant.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

Massachusetts Right To Know Components

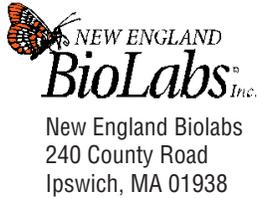
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**ProtoScript® AMV
LongAmp™ Taq
RT-PCR Kit
E5300**

SECTION 1—CHEMICAL INFORMATION

Product Name: dGTP

Sara 313: No

Cas.# 93919-41-6

SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

1. Water Cas.# 7732-18-5
2. 2' Deoxyguanosine 5' - triphosphate trisodium salt Molecular 507.18 Formula: $C_{10}H_{13}N_5Na_3O_{13}P_3$

SECTION 3—HAZARDOUS IDENTIFICATION

Emergency Overview: The hazards identified with this product are those associated with the following component: None

OSHA Hazards: Irritant

HMIS Rating

Health: 1
Flammability: 0
Reactivity: 0

NFPA Rating

Health: 1
Flammability: 0
Reactivity: 0

SECTION 4—FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 5—FIRE FIGHTING MEASURES

Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire and Explosion Hazards: Combustible liquid. Emits toxic fumes under fire conditions.

Flammability: N/A

SECTION 6—ACCIDENTAL RELEASE MEASURES

Personal Precautions: Exercise appropriate precaution to minimize direct contact with skin or eyes. Avoid dust formation.

Environmental Precautions: Do not let product enter drains.

Methods For Cleaning Up: Cover with dry lime, sand, or soda ash. Sweep up and shovel. Place in covered container for disposal.

SECTION 7—HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation.

Storage: Keep tightly closed in a dry and well ventilated place. Store at -20°C .

SECTION 8—EXPOSURE CONTROLS/PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment: Gloves suitable to prevent exposure.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

Skin Specific: Chemical resistant

General Hygiene Measures: Wash hands thoroughly after handling. Wash contaminated clothing before use.

Respiratory Protection: None required.

SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

Color: Colorless

<u>Property</u>	<u>Value</u>	<u>Temperature or Pressure</u>
pH	N/A	
Boiling Point Range:	N/A	
Melting Point Range:	N/A	
Freezing Point:	N/A	
Vapor Pressure:	N/A	
Vapor Density:	N/A	
Volatile%:	N/A	
Viscosity:	N/A	
Auto Ignition Temp:	N/A	
Refractive Index:	N/A	
Solubility in Water:	N/A	

SECTION 10—STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Materials to Avoid: Acid chlorides, Phosphorus halides, strong oxidizing agents, strong acids, strong reducing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur dioxides.

Hazardous Polymerization: Will not occur.

SECTION 11—TOXICOLOGICAL INFORMATION

Route of Exposure

Skin Absorption: May be harmful if absorbed.

Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SECTION 12—ECOLOGICAL INFORMATION

Data not available at this time.

SECTION 13–DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14–TRANSPORT INFORMATION

DOT

Proper Shipping Name: None
Non-hazardous for air transport.

IMDG

Non-hazardous

IATA

Hazard Label: None
Non-hazardous for air transport.

SECTION 15–REGULATORY INFORMATION

OSHA Hazards: Irritant.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

Massachusetts Right To Know Components

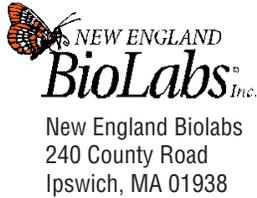
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**ProtoScript® AMV
LongAmp™ Taq
RT-PCR Kit
E5300**

SECTION 1—CHEMICAL INFORMATION

Product Name: AMV Reverse Transcriptase Reaction Buffer

Sara 313: No

Cas.# None

SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

- | | | |
|----------------------|------|------------|
| 1. Tris-HCl | Cas. | #77-86-1 |
| 2. Potassium acetate | Cas. | #127-08-2 |
| 3. Dithiothreitol | Cas. | #3483-12-3 |
| 4. Magnesium acetate | Cas. | #142-72-3 |

SECTION 3—HAZARDOUS IDENTIFICATION

Emergency Overview: The hazards identified with this product are those associated with the following component: None

OSHA Hazards: No known hazards.

HMIS Rating

Health: 1*

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 1

Flammability: 0

Reactivity: 0

*Additional chronic hazards present.

SECTION 4—FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 5—FIRE FIGHTING MEASURES

Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire and Explosion Hazards: Combustible liquid. Emits toxic fumes under fire conditions.

Flammability: N/A

SECTION 6—ACCIDENTAL RELEASE MEASURES

Personal Precautions: Exercise appropriate precaution to minimize direct contact with skin or eyes. Avoid dust formation.

Environmental Precautions: Do not let product enter drains.

Methods For Cleaning Up: Cover with dry lime, sand, or soda ash. Sweep up and shovel. Place in covered container for disposal.

SECTION 7—HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation.

Storage: Keep tightly closed in a dry and well ventilated place. Store at -20°C .

SECTION 8—EXPOSURE CONTROLS/PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment: Gloves suitable to prevent exposure.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

Skin Specific: Chemical resistant

General Hygiene Measures: Wash hands thoroughly after handling. Wash contaminated clothing before use.

Respiratory Protection: None required.

SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

Color: Colorless

<u>Property</u>	<u>Value</u>	<u>Temperature or Pressure</u>
pH	7.6	
Boiling Point Range:	N/A	
Melting Point Range:	N/A	
Freezing Point:	N/A	
Vapor Pressure:	N/A	
Vapor Density:	N/A	
Volatile%:	N/A	
Viscosity:	N/A	
Auto Ignition Temp:	N/A	
Refractive Index:	N/A	
Solubility in Water:	Soluble	

SECTION 10—STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Materials to Avoid: Acid chlorides, Phosphorus halides, strong oxidizing agents, strong acids, strong reducing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur dioxides.

Hazardous Polymerization: Will not occur.

SECTION 11—TOXICOLOGICAL INFORMATION

Route of Exposure

Skin Absorption: May be harmful if absorbed.

Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SECTION 12—ECOLOGICAL INFORMATION

Data not available at this time.

SECTION 13–DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14–TRANSPORT INFORMATION

DOT

Proper Shipping Name: None
Non-hazardous for air transport.

IMDG

Non-hazardous

IATA

Hazard Label: None
Non-hazardous for air transport.

SECTION 15–REGULATORY INFORMATION

OSHA Hazards: None known.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No
TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25
Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

Massachusetts Right To Know Components

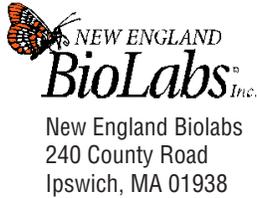
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SECTION 16–OTHER INFORMATION

DISCLAIMER

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MATERIAL SAFETY DATA SHEET

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Toll free: (800)632-5227
Fax: (978)921-1350
E-mail: info@neb.com
Revision Date: 10/09

**ProtoScript®AMV
LongAmp™ Taq
RT-PCR Kit
E5300**

SECTION 1—CHEMICAL INFORMATION

Product Name: Murine RNase Inhibitor

Sara 313: No

Cas.# 56-81-6

SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

1. Glycerol	50%	Cas.# 56-81-6
2. Potassium Chloride	< 1%	Cas.# 7447-40-7
3. K-HEPES	< 1%	Cas.# NA
4. Dithiothreitol	< 1%	Cas. # 3483-12-3

SECTION 3—HAZARDOUS IDENTIFICATION

Emergency Overview: The hazards identified with this product are those associated with the following component: None
OSHA Hazards: Irritant

HMIS Rating

Health: 2
Flammability: 0
Reactivity: 0

NFPA Rating

Health: 2
Flammability: 0
Reactivity: 0

SECTION 4—FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 5—FIRE FIGHTING MEASURES

Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire and Explosion Hazards: Combustible liquid. Emits toxic fumes under fire conditions.

Flammability: N/A

SECTION 6—ACCIDENTAL RELEASE MEASURES

Personal Precautions: Exercise appropriate precaution to minimize direct contact with skin or eyes. Avoid dust formation.

Environmental Precautions: Do not let product enter drains.

Methods For Cleaning Up: Cover with dry lime, sand, or soda ash. Sweep up and shovel. Place in covered container for disposal.

SECTION 7—HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation.

Storage: Keep tightly closed in a dry and well ventilated place. Store at -20°C .

SECTION 8—EXPOSURE CONTROLS/PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment: Gloves suitable to prevent exposure.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

Skin Specific: Chemical resistant

General Hygiene Measures: Wash hands thoroughly after handling. Wash contaminated clothing before use.

Respiratory Protection: None required.

SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

Color: Colorless

<u>Property</u>	<u>Value</u>	<u>Temperature or Pressure</u>
pH	N/A	
Boiling Point Range:	N/A	
Melting Point Range:	N/A	
Freezing Point:	N/A	
Vapor Pressure:	N/A	
Vapor Density:	N/A	
Volatile%:	N/A	
Viscosity:	N/A	
Auto Ignition Temp:	N/A	
Refractive Index:	N/A	
Solubility in Water:	N/A	

SECTION 10—STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Materials to Avoid: Acid chlorides, Phosphorus halides, strong oxidizing agents, strong acids, strong reducing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur dioxides.

Hazardous Polymerization: Will not occur.

SECTION 11—TOXICOLOGICAL INFORMATION

Route of Exposure

Skin Absorption: May be harmful if absorbed.

Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SECTION 12—ECOLOGICAL INFORMATION

Data not available at this time.

SECTION 13–DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14–TRANSPORT INFORMATION

DOT

Proper Shipping Name: None
Non-hazardous for air transport.

IMDG

Non-hazardous

IATA

Hazard Label: None
Non-hazardous for air transport.

SECTION 15–REGULATORY INFORMATION

OSHA Hazards: Irritant.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

Massachusetts Right To Know Components

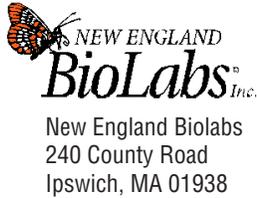
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SECTION 16–OTHER INFORMATION

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**ProtoScript® AMV
LongAmp™ Taq
RT-PCR Kit
E5300**

SECTION 1—CHEMICAL INFORMATION

Product Name: AMV Reverse Transcriptase

Sara 313: No

Cas.# 9068-38-6

SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

1. Glycerol	50%	Cas.# 56-81-6
2. Potassium Phosphate	< 1%	Cas.# 7778-77-2
4. Triton X-100	< 1%	Cas.# 9002-93-1
3. Dithiothreitol	< 1%	Cas.# 3483-12-3

SECTION 3—HAZARDOUS IDENTIFICATION

Emergency Overview: The hazards identified with this product are those associated with the following component: None
OSHA Hazards: No known hazards.

HMIS Rating

Health: 1*

Flammability: 0

Reactivity: 1

NFPA Rating

Health: 1

Flammability: 0

Reactivity: 1

*Additional chronic hazards present.

SECTION 4—FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 5—FIRE FIGHTING MEASURES

Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Special Fire Fighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire and Explosion Hazards: Combustible liquid. Emits toxic fumes under fire conditions.

Flammability: N/A

SECTION 6—ACCIDENTAL RELEASE MEASURES

Personal Precautions: Exercise appropriate precaution to minimize direct contact with skin or eyes. Avoid dust formation.

Environmental Precautions: Do not let product enter drains.

Methods For Cleaning Up: Cover with dry lime, sand, or soda ash. Sweep up and shovel. Place in covered container for disposal.

SECTION 7—HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation.

Storage: Keep tightly closed in a dry and well ventilated place. Store at -20°C .

SECTION 8—EXPOSURE CONTROLS/PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment: Gloves suitable to prevent exposure.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

Skin Specific: Chemical resistant

General Hygiene Measures: Wash hands thoroughly after handling. Wash contaminated clothing before use.

Respiratory Protection: None required.

SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

Color: Colorless

<u>Property</u>	<u>Value</u>	<u>Temperature or Pressure</u>
Boiling Point Range:		182°C
Melting Point Range:		20°C
Flash Point:		320°F, 160°C Method: Closed cup
Auto Ignition Temp:		370°C
Vapor Pressure:	< 1 mmHg	20°C
Vapor Density:	3.1 g/l	
Specific Gravity:	1.262	
Solubility in Water:	Soluble	

SECTION 10—STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Materials to Avoid: Acid chlorides, Phosphorus halides, strong oxidizing agents, strong acids, strong reducing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur dioxides.

Hazardous Polymerization: Will not occur.

SECTION 11—TOXICOLOGICAL INFORMATION

Route of Exposure

Skin Absorption: May be harmful if absorbed.

Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SECTION 12—ECOLOGICAL INFORMATION

Data not available at this time.

SECTION 13—DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14—TRANSPORT INFORMATION

DOT

Proper Shipping Name: None
Non-hazardous for air transport.

IMDG

Non-hazardous

IATA

Hazard Label: None
Non-hazardous for air transport.

SECTION 15—REGULATORY INFORMATION

OSHA Hazards: None known.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

Massachusetts Right To Know Components

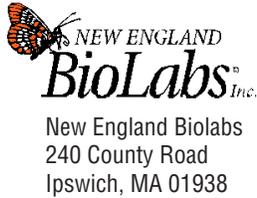
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SECTION 16—OTHER INFORMATION

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**ProtoScript®AMV
LongAmp™ Taq
RT-PCR Kit
E5300**

SECTION 1—CHEMICAL INFORMATION

Product Name: Random Primer Mix

Sara 313: No

Cas.# None

SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

Sequence: 5'd (NNNNNNNNN) '3 (N=A, G, C,T)

SECTION 3—HAZARDOUS IDENTIFICATION

Emergency Overview: The hazards identified with this product are those associated with the following component: None
OSHA Hazards: No known hazards.

HMIS Rating

Health: 1*

Flammability: 0

Reactivity: 1

NFPA Rating

Health: 1

Flammability: 0

Reactivity: 1

*Additional chronic hazards present.

SECTION 4—FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 7—HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation.

Storage: Keep tightly closed in a dry and well ventilated place. Store at -20°C .

SECTION 14—TRANSPORT INFORMATION

DOT

Proper Shipping Name: None

Non-hazardous for air transport.

IMDG

Non-hazardous

IATA

Hazard Label: None

Non-hazardous for air transport.

SECTION 15--REGULATORY INFORMATION

OSHA Hazards: None known.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

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Environmental Precautions: Do not let product enter drains.

Methods For Cleaning Up: Cover with dry lime, sand, or soda ash. Sweep up and shovel. Place in covered container for disposal.

SECTION 7—HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation.

Storage: Keep tightly closed in a dry and well ventilated place. Store at -20°C .

SECTION 8—EXPOSURE CONTROLS/PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment: Gloves suitable to prevent exposure.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

Skin Specific: Chemical resistant

General Hygiene Measures: Wash hands thoroughly after handling. Wash contaminated clothing before use.

Respiratory Protection: None required.

SECTION 9—PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

Color: Colorless

<u>Property</u>	<u>Value</u>	<u>Temperature or Pressure</u>
Boiling Point Range:		182°C
Melting Point Range:		20°C
Flash Point:		320°F, 160°C Method: Closed cup
Auto Ignition Temp:		370°C
Vapor Pressure:	< 1 mmHg	20°C
Vapor Density:	3.1 g/l	
Specific Gravity:	1.262	
Solubility in Water:	Soluble	

SECTION 10—STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Materials to Avoid: Acid chlorides, Phosphorus halides, strong oxidizing agents, strong acids, strong reducing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur dioxides.

Hazardous Polymerization: Will not occur.

SECTION 11—TOXICOLOGICAL INFORMATION

Route of Exposure

Skin Absorption: May be harmful if absorbed.

Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SECTION 12—ECOLOGICAL INFORMATION

Data not available at this time.

SECTION 13–DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14–TRANSPORT INFORMATION

DOT

Proper Shipping Name: None
Non-hazardous for air transport.

IMDG

Non-hazardous

IATA

Hazard Label: None
Non-hazardous for air transport.

SECTION 15–REGULATORY INFORMATION

OSHA Hazards: None known.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No
TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25
Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

Massachusetts Right To Know Components

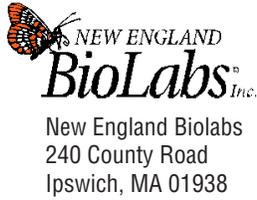
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**ProtoScript®AMV
LongAmp™ Taq
RT-PCR Kit
E5300**

SECTION 1—CHEMICAL INFORMATION

Product Name: Nuclease-free Water

Sara 313: No

Cas.# None

SECTION 2—COMPOSITION/INFORMATION ON INGREDIENT

H₂O

SECTION 3—HAZARDOUS IDENTIFICATION

Emergency Overview: The hazards identified with this product are those associated with the following component: None
OSHA Hazards: No known hazards.

HMIS Rating

Health: 0*

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 0

Flammability: 0

Reactivity: 0

*Additional chronic hazards present.

SECTION 4—FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 7—HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation.

Storage: Keep tightly closed in a dry and well ventilated place. Store at -20°C .

SECTION 14—TRANSPORT INFORMATION

DOT

Proper Shipping Name: None

Non-hazardous for air transport.

IMDG

Non-hazardous

IATA

Hazard Label: None

Non-hazardous for air transport.

SECTION 15--REGULATORY INFORMATION

OSHA Hazards: None known.

US Classification and Label Test

US Statements: Caution. Avoid contact and inhalation. Target Organ (s): Kidneys.

United States Regulatory Information:

Sara Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

EU Additional Classification

S: 23 24/25

Safety Statements: Do not breath vapor. Avoid contact with skin and eyes.

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