

# MATERIAL SAFETY DATA SHEET

## HigherPurity™ Blood/Cultured Cell Total RNA Kit

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

#### 1.1. PRODUCT DETAILS

**Trade Name:** HigherPurity™ Blood/Cultured Cell Total RNA Kit

**Catalog Number:** AN0145, AN0146, AN0146-XL

#### 1.2. COMPANY DETAILS

**Supplier:** Canvax Reagents S.L., Luis de Mercado St. 19, Boecillo Technological Park, Valladolid (Spain)

#### 1.3. EMERGENCY TELEPHONE NUMBER

**Emergency Telephone Number:** +34 931768545

### 2. HAZARDS IDENTIFICATION

#### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

**Classification (67/548/CEE) or (1999/45/CE):** Xn; R22 Xi; R36, R37, R38. R41, R42

**Physical Hazards:** not classified

**Health Hazards:** Skin Irritation 2 – H315; Eye Damage 1 – H318; Respiratory Sensitivity 1 - H332.

**Environmental Hazards:** not classified.

#### 2.2. LABEL ELEMENTS



**H302 + H332** Harmful if swallowed or inhaled.

**H315** Causes skin irritation

**H318** Causes serious eye injuries.

#### 2.3. PREVENTIVE ADVICE

**P273** Prevent release into the environment.

**P280** Wear gloves and protective clothing/eye/face and hearing protection.

**P284** In case of insufficient ventilation, wear respiratory protective equipment.

**P301 + P312** IN CASE OF INGESTION: Call a POISON CENTER/doctor if the person is unwell.

**P302 + P352** IF ON SKIN: Wash with plenty of water.



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**P304 + P340 + P312** IN CASE OF INHALATION: Transport the person outdoors and keep them in a position that facilitates breathing. Call a POISON CENTER/doctor if the person is unwell.

**P305+P351+P338** IN CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue to continue rinsing.

### 2.4. OTHER HAZARDS

None known

## 3. CHEMICAL CHARACTERIZATION

Product	Substance	CAS-no.	Weight %	Classification according to (67/548/CEE) or (199/45/CE)
RCB Buffer	Guanidine-hydrochloride	50-01-1	25-50%	Xn; R22 Xi; R36/38
Buffer BLY	Guanidine-hydrochloride	50-01-1	25-50%	Xn; R22 Xi; R36/38
Wash Buffer 1	Sodium hydroxide	1310-73-2	0,2-1%	C; R35
	Sodium dodecylsulfate	151-21-3	0,5-2%	Xn; R21/22 Xi; R41, R36/37
Wash Buffer 2	Sodium dodecylsulfate	151-21-3	0,5-2%	Xn; R21/22 Xi; R41, R36/37
RNase-free ddH <sub>2</sub> O	Contains no hazardous substances in concentrations to be declared.			

## 4. FIRST AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

**Inhalation:** Remove affected person immediately to fresh air. Get medical attention.

**Ingestion:** Remove affected person to fresh air and keep warm and at rest in a position comfortable for comfortable breathing position. Rinse mouth with water. Provide plenty of water to drink. Get medical attention if any discomfort continues.

**Skin contact:** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. Get medical attention if any discomfort continues.

**Eye contact:** Flush immediately with plenty of water. Remove contact lenses and hold eyelids wide apart. Continue rinsing for at least 15 minutes. Get medical attention immediately. Continue rinsing.

### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data available.



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### 5. FIRE FIGHTING MEASURES

#### 5.1. EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry chemical powder.

#### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

The product causes burn of eyes, skin and mucous membranes. React violently with water. Contact with metals may evolve flammable hydrogen gas.

#### 5.3. ADVICE FOR FIRE FIGHTERS

Wear positive pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear protective clothing as described in Section 8 of this Safety data sheet. Avoid inhalation of mists and contact with skin and eyes. Provide adequate ventilation.

#### 6.2. ENVIRONMENTAL PRECAUTIONS

Spills or uncontrolled discharge into watercourses should be reported immediately to the Environment Agency or other competent authority.

#### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Collect the product with a vacuum cleaner. If this is not possible, pick it up with a shovel, broom or similar. Wash the contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal tightly. For waste disposal, see Section 13.

#### 6.4. REFERENCE TO OTHER SECTIONS

For disposal: see section 13

### 7. HANDLING AND STORAGE

#### 7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid spillage. Avoid contact with eyes and skin. Avoid inhalation of dust. Provide adequate ventilation.

#### 7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed. Keep only in the original container. Store at room temperature.

#### 7.3. SPECIFIC END USE(S)

Not available.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. CONTROL PARAMETERS

No exposure limit value known.



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### 8.2. EXPOSURE CONTROLS

#### Special protective equipment



**Eye/face protection:** The following protection should be worn: Chemical splash goggles.

**Hand protection:** It is recommended that gloves be made of the following materials: Nitrile rubber.

**Other skin and body protection:** Wear rubber apron. Wear rubber footwear.

**Respiratory protection:** If ventilation is insufficient, suitable respiratory protection should be worn.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

#### **RBC Buffer**

Appearance: Liquid

Odour: Odourless

Solubility: no data available

pH: 6

#### **BLY Buffer**

Appearance: Liquid

Odour: Odourless

Solubility: no data available

pH: 6

#### **Wash Buffer 1**

Appearance: Colourless, Liquid

Odour: Odourless

Solubility: no data available

pH: 7-8

#### **Wash Buffer 2**

Appearance: Colourless, Liquid

Odour: Odourless

Solubility: no data available

pH: 7-8

#### **RNase-free ddH<sub>2</sub>O**

Appearance: Colourless, Liquid

Odour: Odourless

pH: 6-7

### 9.2. OTHER INFORMATION

Not determined.



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### 10. STABILITY AND REACTIVITY

#### 10.1. REACTIVITY

There are no known reactivity hazards associated with this product.

#### 10.2. CHEMICAL STABILITY

Stable at normal room temperature and when used as recommended.

#### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4. CONDITIONS TO AVOID

No specific data.

#### 10.5. INCOMPATIBLE MATERIALS

Not determined.

#### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

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

### 11. TOXICOLOGICAL INFORMATION

#### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

##### Acute toxicity:

Guanidine-hydrochloride

Oral toxicity: LD50 rat 475 mg/kg

Toxicity (inhalation): LD50 rat 5.3 mg/l (4 h)

Toxicity (others): LD50 intraperitoneal mouse 500 mg/kg

Sodium dodecylsulphate

Oral toxicity: LD50 rat 1288 mg/kg

##### Primary irritant effect:

- On the skin: Irritant to skin and mucous membranes.
- On the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

##### Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** The components of the product are not classified as hazardous to the environment. Large or frequent spills may have harmful effects on the environment.



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### 12.1. TOXICITY

It is not considered toxic to fish.

### 12.2. PERSISTENCE AND DEGRADABILITY

There are no data on the degradability of this product.

### 12.3. BIOACCUMULATION POTENTIAL

No data on bioaccumulation.

### 12.4. MOBILITY IN THE SOIL

The product is soluble in water.

### 12.5. PBT AND vPvBm ASSESSMENT RESULTS

This product does not contain substances classified as PBT or vPvB.

### 12.6. OTHER ADVERSE EFFECTS

Not determined.

## 13. DISPOSAL CONSIDERATIONS

### 13.1. WASTE TREATMENT METHODS

**General information:** Waste should be treated as hazardous waste. Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods:** Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.

## 14. TRANSPORT INFORMATION

### 14.1. UN-NUMBER

No information required.

### 14.2. UN PROPER SHIPPING NAME

No information required.

### 14.3. TRANSPORT HAZARD CLASS(ES)

No information required.

### 14.4. PACKAGING GROUP

No information required.

### 14.5. ENVIRONMENTAL HAZARDS

**Hazardous pollutant substance/marine pollutant:** No.

### 14.6. SPECIAL PRECAUTIONS FOR USER

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.



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### 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II MARPOL73/78 AND THE IBC CODE

No information required.

## 15. REGULATORY INFORMATION

### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

**National Provisions:** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

**EU Legislation:** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (as amended).

**Guidance:** CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

### 15.2. CHEMICAL SAFETY ASSESSMENT

Any chemical safety assessment has been carried out.

## 16. OTHER INFORMATION

**Revision comments NOTE:** Lines within the margin indicate significant changes from the previous revision.

**Revision Date:** 11/02/2024

**Revision:** 01

**Date of replacement:** No previous revision.

