



Multiplexed Diagnostics | Affordable Healthcare

## **SAFETY DATA SHEET (SDS) ACCORDING TO GHS AND CLP**

### **MT-PREP VIRAL/PATHOGEN NUCLEIC ACIDS EXTRACTION KIT B**

**THIS PRODUCT IS CONSIDERED NON-HAZARDOUS.** This product does not contain more than 0.1% of a component classified as hazardous or carcinogenic in the GHS and CLP Regulation (EC) No 1272/2008. Therefore, per Global Harmonised Standards (GHS) ST/SG/AC.10/30/Rev.6, OSHA 29CFR1910.1200, Commonwealth of Australia [NOHSC: 1005, 1008(1999)], and the latest amendments to the Regulation (EC) No 1272/2008, this product does not require a Safety Data Sheet (SDS) or Material Safety Data Sheet (MSDS).

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

### 1.1 PRODCT NAME

MT-Prep Viral/Pathogen Nucleic Acids Extraction kit B (48 samples)- CatNo 93010

### 1.2 OTHER MEANS OF IDENTIFICATION

N/A

### 1.3 RECOMMENDED USE

MT-Prep Viral/Pathogen Nucleic Acids Extraction kit B (48 samples) is intended for the extraction of DNA and/or RNA using the MT-Prep Extractor System.

### 1.4 TECHNICAL ENQUIRIES

For assistance or if any issues recur, please contact AusDiagnostics.

Email: [info@ausdiagnostics.com](mailto:info@ausdiagnostics.com)



#### **AusDiagnostics Pty Ltd**

290-292 Coward Street  
MASCOT  
NSW 2020 Australia  
Phone: +612 9698 8030  
Email: [info@ausdiagnostics.com](mailto:info@ausdiagnostics.com)

#### **AusDiagnostics NZ Ltd**

7C Douglas Alexander Parade  
Rosedale, Auckland 0632  
New Zealand  
Phone: +64 9 886 9717  
Email: [info@ausdiagnostics.com](mailto:info@ausdiagnostics.com)

#### **AusDiagnostics UK Ltd**

Unit 3  
Anglo Business Park, Asheridge Rd,  
Chesham, Bucks, HP5 2QA UK  
Phone: +44 (0) 1494 300121  
Toll-Free: 0800 160 1703  
Email: [info@ausdiagnostics.com](mailto:info@ausdiagnostics.com)

## 2.HAZARDS IDENTIFICATION.

### 2.1 GHS CLASSIFICATION AND NATIONAL OR REGIONAL INFORMATION

THIS PRODUCT IS CONSIDERED NON-HAZARDOUS. Per OSHA 29CFR1910.1200, Commonwealth of Australia [NOHSC: 1005, 1008(1999)], and the latest amendments to the Regulation (EC) No 1272/2008, this product does not require a Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS).

This product does not contain more than 0.1% of a component classified as hazardous or carcinogenic in GHS and Regulation (EC) No 1272/2008. Despite the classification of certain products/components as non-hazardous, we strongly recommend using prudent laboratory practices: avoiding unnecessary contact and use of personal protective equipment (PPE), which may include gloves, eye protection, and lab coats, during the use of any laboratory reagent.

AusDiagnostics shall not be held liable for any damages resulting from handling or from contact with the above product.

## 2.2 OTHER HAZARDS

N/A

## 3.COMPOSITION/ INFORMATION ON INGREDIENTS

### 3.1 MIXTURES AND GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

#### Proteinase K: 1 piece(s)

Ingredients-

- < 5 % Proteinase K, EC No. 254-457-8 CAS-No. 39450-01-6

Pictograms: GHS08

Signal Word Code(s): Dgr

Hazard Statement Code(s): H315, H319, H334

- 40-50 % Glycerol, EC No.200-289-5 CAS-No. 56-81-5

Pictograms: GHS07

Signal Word Code(s): Wng

Hazard Statement Code(s): H315, H319

60-50 % Non-Hazardous Ingredients

## 4.FIRST AID MEASURES

### 4.1 DESCRIPTION OF NECESSARY MEASURES, ACCORDING TO DIFFERENT ROUTES OF EXPOSURE

- After Inhalation, Remove to fresh air. If irritation persists seek medical attention.
- After ingestion, do not induce vomiting. Wash mouth out with water, provided the person is conscious. Seek medical attention immediately.
- After Contact with Skin, Immediately wash with soap and copious amounts of water. If irritation is present get medical attention.
- After Contact with Eyes, Immediately flush eyes with copious amounts of water for several minutes. Consult a doctor immediately.

### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Cause skin irritation, serious eye irritation and may cause allergy and asthma symptoms or breathing difficulties if inhaled.

Therefore, skin contact, eye contact and ingestion should be avoided.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS

There is no specific antidote. Treat symptomatically and supportively.

## **5. FIRE FIGHTING MEASURES**

### **5.1 SUITABLE EXTINGUISHING MEDIA**

Water spray, CO<sub>2</sub> or dry chemical powder. Large fires should be confronted with water spray or alcohol resistant foam.

### **5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**

No data is available for specific hazards of this product as a whole.  
Specific Hazards, Emits toxic fumes under fire conditions.

### **5.3 FIRE FIGHTING PROTECTIVE MEASURES**

Wear protective clothing to prevent contact with the skin and eyes.  
Wear self contained breathing equipment to prevent inhalation of explosive or combustion gases.

## **6. ACCIDENTAL RELEASE MEASURES**

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

Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal and ensure ventilation is adequate.

### **6.2 ENVIRONMENTAL PRECAUTIONS**

Do not dispose to surface, ground water or sewers.

### **6.3 METHODS AND MATERIALS FOR CONTAMINATION AND CLEAN UP**

Use a liquid-binding material (e.g. sand, sawdust, diatomite etc.) to absorb the spillage.  
Place in closed containers for disposal. Ventilate area well after clean-up procedures have taken place.  
Wear personal protection equipment (PPE) as outlined in Section 8.  
Dispose of residue in accordance with federal, state, and local regulations.

## **7. HANDLING AND STORAGE**

### **7.1 PRECAUTIONS FOR SAFE HANDLING**

This product is only to be used by trained personnel in qualified laboratories. Observe all federal, state and local regulations. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

### **7.2 CONDITIONS FOR SAFE STORAGE**

This product must be stored between 15–25°C (see applicable product label and IFU).

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 CONTROL PARAMETERS, INGREDIENTS WITH EXPOSURE LIMIT VALUES**

N/A.

### **8.2 ENGINEERING MEASURES**

N/A (see section 7).

### 8.3 INDIVIDUAL PROTECTION MEASURES, PERSONAL PROTECTION EQUIPMENT

- Respiratory Protection, N/A.
- Hand Protection, Gloves should be worn, either rubber or chemical resistant.
- Eye Protection, Wearing safety goggles is advised, as is the availability of eye-wash stations.
- Skin Protection, Lab coats should be worn during handling. Safety deluge showers should be available. User must wear appropriate protective gloves to prevent contact with this material.
- Hygiene Practices, Avoid contact with skin or eyes, do not place in mouth. Do not eat, drink or smoke when handling this product. Upon completion of the use of this product, dispose of protective gloves safely and wash hands thoroughly with soap and water.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Details
Physical State	Liquid, Carrier RNA- solid
	Colourless
Odour	odourless
Melting point/freezing point	No data available
Boiling point/Boiling range	No data available
Flammability	No data available
Lower and upper explosion limit/ flammability limit	No data available
Flash point	Binding Buffer -12 °C N/A for rest of the components
Auto-ignition temperature	Product is not self-igniting
Decomposition temperature	No data available
pH	Proteinase K- pH: 7.5 Lysis Buffer 4- pH: 6.0-7.0 Wash Buffer 1- pH: 6.6 Wash Buffer 2- pH: 4.0 Wash Buffer 3- pH: 4.0 Elution Buffer 1- pH: 5-9 Elution Buffer2- pH: 5-9 BL2 buffer- pH: 5-9 N/A for rest of the components
Kinematic viscosity	No data available
Solubility	Fully water soluble
Partition coefficient	No data available

Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
Particle characteristics	No data available

## 10. STABILITY AND REACTIVITY

### 10.1 REACTIVITY

Dangerous Reactions, reacts with acids to form toxic gases..

### 10.2 CHEMICAL STABILITY

Product is stable under normal handling and storage conditions (between 15–25°C, as per product label and IFU). Avoid excess heat, flame and pressure.

### 10.3 HAZARDUS REACTIONS

Not known.

### 10.4 CONDITIONS TO AVOID

No dangerous reactions known if used according to specifications.

### 10.5 INCOMPATIBLE MATERIALS

Not known.

### 10.6 HAZARDUS DECOMPOSITION PRODUCTS

N/A.

## 11. TOXICOLOGICAL INFORMATION

Concise but complete and comprehensible description of the various toxicological (health) effects and the available data used to identify those effects.

### 11.1 INFORMATION ON THE LIKELY ROUTES OF EXPOSURE

- Inhalation, may be harmful if inhaled. May cause respiratory tract irritation.
- Skin, may be harmful if absorbed through skin, Causes skin irritation.
- Eyes, Causes eye irritation.
- Ingestion, may be harmful if swallowed.

### 11.2 SYMPTOMS RELATED TO THE CHEMICAL, PHYSICAL AND TOXICOLOGICAL PROPERTIES

To the best of our knowledge the chemical, physical and toxicological properties have not been fully investigated.

Acute Health Effects:	N/A
Chronic Health Effects:	N/A
Carcinogenic Effects:	N/A
Mutagenic Effects:	N/A
Teratogenic Effects:	N/A
Developmental Toxicity:	N/A

Hazards:	N/A
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### 11.3 SIGNS AND SYMPTOMS OF EXPOSURE

- Acute toxicity, no data available.
- Irritation and corrosion, no data available.
- Sensitisation, no data available.
- Chronic exposure, no data available.

### 11.4 NUMERICAL MEASURES OF TOXICITY

Acute toxicity-

LD50 Oral - Rat - 12600 mg/kg

LD50 Dermal - Rabbit - > 10000 mg/kg

## 12. ECOLOGICAL INFORMATION

### 12.1 ECOTOXICITY EFFECTS

No data available.

### 12.2 ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

No data available.

### 12.3 BIOACCUMULATIVE POTENTIAL

No data available.

### 12.4 MOBILITY IN SOIL

No data available.

### 12.5 OTHER ADVERSE EFFECTS

No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 PRODUCT DISPOSAL

- Disposal must be made according to regional and national regulations.
- Must not be disposed together with household waste.
- Do not allow product to reach sewage system.

### 13.2 CONTAMINATED PACKAGING DISPOSAL

Contaminated packaging should be disposed of according to official regulations.

## 14. TRANSPORT INFORMATION

Shipment is made as a non-regulated material. No transportation restrictions apply.

The acute toxicity profile does not warrant shipment as a hazardous material (DOT) or a dangerous good (IATA).

### 14.1 UN NUMBER

N/A

### 14.2 UN PROPER SHIPPING NAME

- ADR / RID, Not hazardous good
- IMDG-Code / ICAO-TI / IATA-DGR, None

### 14.3 TRANSPORT HAZARD CLASS

Land, Maritime, and Air Transport, Not dangerous goods

### 14.4 PACKING GROUP

N/A

### 14.5 ENVIRONMENTAL HAZARDS

N/A

### 14.6 TRANSPORT IN BULK (ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE)

N/A

### 14.7 SPECIAL PRECAUTIONS FOR USER

N/A

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/ specific legislation for the substance or mixture.

The toxicological properties of this material have not been investigated.

EU-Regulations, Regulation (EC) No 1272/2008

Labelling According to EU Guidelines

National regulations, Not determined

Other relevant regulations, Global Harmonised Standards (GHS)

## 16. DISCLAIMER

The information provided in this Safety Data Sheet (SDS) is accurate to the best of our present knowledge. However, this does not constitute a guarantee for any specific product features.

All substances and preparations may present unknown hazards and should be used with caution.

AusDiagnostics shall not be held liable for any damage resulting from the handling of or from contact with the above product. The information supplied in this SDS shall not establish a legally valid contractual relationship.

## 17. DOCUMENT HISTORY

Document ID of SDS	Date of Change	Changes
SDS-EXT-r01	01 Dec 2019	The document was created