

MATERIAL SAFETY DATA SHEET

HigherPurity™ Bacterial DNA Isolation Kit

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

1.1. PRODUCT DETAILS

Trade Name: HigherPurity™ Bacterial DNA Isolation Kit

Catalog Number: AN0066, AN0067, AN0067-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):

Acute toxicity	Category 4
Skin irritant	Category 2
Serious eye damage / eye irritation	Category 1
Long-term (chronic) aquatic hazard	Category 2
Respiratory sensitization	Category 1

Physical Hazards: Not Hazardous.

Health Hazards: Not Hazardous.

Environmental Hazards: Not Hazardous.

2.2. LABEL ELEMENTS



H302 Harmful if swallowed, in contact with skin or if inhaled.

H315 Causes skin irritation

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation

H411 Toxic to aquatic life with long lasting effects



MATERIAL SAFETY DATA SHEET

HigherPurity™ Bacterial DNA Isolation Kit

2.3. PREVENTIVE ADVICE

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

2.4. OTHER HAZARDS

None known.

3. CHEMICAL CHARACTERIZATION

Mixtures

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Substance	CAS-no.	Weight %	Classification
BR-1 Buffer	Contains no hazardous substances in concentrations to be declared		
BLU Buffer	50-01-1	15-40 % Guanidine-hydrochloride	Act. Tox 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Hazard / H411
WB1 Buffer	50-01-1	10-30 % Guanidine-hydrochloride	Act. Tox 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Hazard / H411
WB2 Buffer	Contains no hazardous substances in concentrations to be declared		
EB Buffer	Contains no hazardous substances in concentrations to be declared		
Proteinase K	39450-01-6	70 – 90 % Proteinase K	Eye Irrit 1 / H319 Resp. Sens / H334 Resp. Irrit / H335
Lysozyme	Contains no hazardous substances in concentrations to be declared		



MATERIAL SAFETY DATA SHEET

HigherPurity™ Bacterial DNA Isolation Kit

4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Inhalation: Toxic by inhalation. Supply fresh air. Call a doctor/physician immediately. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.

Ingestion: Call a doctor/physician or Poison Control Centre immediately. Rinse mouth with water, repeatedly. Drink large amounts of water. Do not induce vomiting without medical advice.

Skin contact: Immediately wash skin with soap and flush with large amounts of water. Remove all contaminated clothes. Call a doctor/physician immediately.

Eye contact: Immediately rinse opened eyes with large amounts of water during at least 15 minutes. Remove contact lenses. Get medical attention in case eye(s) remain irritated.

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

None.

5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Not known

5.3. ADVICE FOR FIRE FIGHTERS

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2. ENVIRONMENTAL PRECAUTIONS

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb with appropriate absorbent material (e.g. sawdust, sand, diatomite, acid binders, universal binders, sodium bicarbonate, crushed limestone, etc) and place in closed adequate containers for proper disposal.



MATERIAL SAFETY DATA SHEET

HigherPurity™ Bacterial DNA Isolation Kit

6.4. REFERENCE TO OTHER SECTIONS

See section 8 for more information.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid exposure. Prevent contact with skin, eyes and clothing. Remove all sources of ignition.

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Store at room temperature.

7.3. SPECIFIC END USE(S)

For research use only. Not for diagnostic use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Contains no substances with occupational exposure limit values.

8.2. EXPOSURE CONTROLS

Special protective equipment



Eye/face protection: Safety glasses. Used to prevent splash hazards. Government standards such as NIOSH (US) or EN 166(EU).

Hand protection: Protective gloves, use for short times chemical resistant latex gloves with code EN 374-3 level 1.

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

Substance	Appearance	Colour	Odour	Solubility	pH	Relative Density
BR-1 Buffer	Liquid	Colourless	Odourless	Not available	7.6	Not available
BLU Buffer	Liquid	Colourless	Odourless	Not available	6.0	Not available



MATERIAL SAFETY DATA SHEET

HigherPurity™ Bacterial DNA Isolation Kit

WB1 Buffer	Liquid	Colourless	Odourless	Not available	6.0	Not available
WB2 Buffer	Liquid	Colourless	Odourless	Not available	7.0-8.0	Not available
EB Buffer	Liquid	Colourless	Odourless	Not available	6.0-8.0	Not available
Proteinase K	Powder (Lyophilized)	Not available	Odourless	Not available	Not available	Not available
Lysozyme	Powder (Lyophilized)	Not available	Odourless	Not available	Not available	Not available

9.2. OTHER INFORMATION

Not determinated.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

No hazardous reactions are expected because the product is stable under recommended storage conditions.

10.2. CHEMICAL STABILITY

Stable under normal conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous reaction has not been reported.

10.4. CONDITIONS TO AVOID

No information available.

10.5. INCOMPATIBLE MATERIALS

No information available.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

No data available.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Guanidine-hydrochloride

- Oral toxicity: LD50 rat 1320 mg/kg
- Toxicity (inhalation): LD50 rat 1330 mg/l (4 h)
- Toxicity (others): LD50 intraperitoneal mouse 1500 mg/kg

Acute toxicity:

There is no evidence available indicating acute toxicity.



MATERIAL SAFETY DATA SHEET

HigherPurity™ Bacterial DNA Isolation Kit

Primary irritant effect:

- On the skin: Irritant to skin and mucous membranes.
- On the eye: Irritating effect

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: Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.

Note: Hazard class 1, slightly hazardous to water and ground.

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

No information available.

12.5. PBT AND vPvBm ASSESSMENT RESULTS

This mixture does not contain any substances that are assessed to be a PBT or a 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: Used reagent can be disposed of in the wastewater in accordance with local regulations. Dispose of empty packs by local recycling or waste disposal routes, if necessary, clean them beforehand.

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.



MATERIAL SAFETY DATA SHEET

HigherPurity™ Bacterial DNA Isolation Kit

14.4. PACKAGING GROUP

No information required

14.5. ENVIRONMENTAL HAZARDS

Hazardous pollutant substance/marine pollutant: No.

14.6. SPECIAL PRECAUTIONS FOR USER

Not applicable.

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: Lines within the margin indicate significant changes from the previous revision.

Revision Date: 27/06/2025

Revision: 02

Date of replacement: No previous revision.

