



MBead Bacteria Genomic DNA Kit

Identification of the product / Substance and of the company

Product Name: MBead Bacteria Genomic DNA Kit
 Catalogue number of the product: PDM03-0100(S)
 Use of the production: For laboratory use.
 Company identification: BIO-HELIX Co., LTD.
 Site: <http://www.bio-helix.com>
 E-mail: info@bio-helix.com

Composition / Information on ingredients

Lysis Buffer	5-10% Guanidine Hydrochloride	CAS-No. 50-01-1
Wash Buffer	10-15% Propan-2-ol	CAS-No. 67-63-0
Release Buffer	No hazardous substances in concentrations to be declared	
Magnetic Bead	No hazardous substances in concentrations to be declared	

Hazards identification

Guanidine Hydrochloride:

Signal word: Warning

Acute oral toxicity: Category 4

Acute inhalation toxicity: Category 4

Skin irritation: Category 2

Eye damage/eye irritation: Category 2A

Hazard statements: Cause eye irritation. Harmful if swallowed.

Precautionary statements: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Storage: Store in a well-ventilated place.

Other hazards: None known.

Propan-2-ol

Signal word: Danger

Eye damage/eye irritation: Category 2A

Hazard statements: Cause serious eye irritation.

Precautionary statements: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Keep away from heat, sparks, open flames, hot surfaces.

Storage: Store in a well-ventilated place.

Other hazards: None known.

First Aid Measures

Guanidine Hydrochloride:

In case of eye contact:

Immediately rinse out with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

In case of skin contact:

Remove contaminated clothing and shoes. Immediately flush skin with plenty of water for at least 15 minutes. Get medical aid.



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If inhaled:

Remove from exposure and move to fresh air immediately. If necessary, also oxygen.

If swallowed:

Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Propan-2-ol

In case of eye contact:

Immediately rinse out with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

In case of skin contact:

Remove contaminated clothing and shoes. Immediately flush skin with plenty of water for at least 15 minutes. Get medical aid.

If inhaled:

Remove from exposure and move to fresh air immediately.

If swallowed:

Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Fire-fighting measures

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Decomposition: Dangerous decomposition is not anticipated.

Accidental release measures

Actions to be taken on spillage: Dilute spilled liquids with plenty of water and adsorb.

Absorbent material: No restriction.

Actions to be taken to limit Damage: Special measures to limit damage are not necessary.

Handling and storage

Advice on safe handling: Open and handle vessels carefully. Avoid contact with skin and eyes.

Storage condition: Keep container tightly closed. Store at room temperature.

Storage procedures: Do not store together with acids.

Exposure controls / personal protection

Respiratory protection: No personal respiratory protective equipment normally required.

Eye protection: Safety glasses

Hand protection: One-way gloves

Hygiene measures: Wash hands before and after use.





Physical and chemical properties

Lysis Buffer	Form: liquid	Miscibility with water: immiscible	pH :4.5
Wash Buffer	Form: liquid	Miscibility with water: immiscible	pH: 5.0
Release Buffer	Form: liquid	Miscibility with water: immiscible	pH: 8.5

Stability and reactivity

Stability:	Stable under normal conditions.
Reactivity:	Stable under normal conditions.
Conditions to avoid:	Reacts with alkalis and oxidizing agents.
Hazardous decomposition products:	Danger of toxic pyrolysis products.

Toxicological information

Guanidine Hydrochloride

Acute oral toxicity: LD50 rat 475 mg/kg
 Skin corrosion/irritation: Irritations.
 Eye damage: Causes serious eye damage.

Propan-2-ol

Acute oral toxicity: LD50 rat 5,840 mg/kg.
 Skin corrosion/irritation: rabbit – No skin irritation – 4 hrs.
 Eye damage: Causes eye irritation.
 Skin corrosion/irritation: rabbit – Cause burns.

Ecological information

May be harmful to aquatic. Avoid release to the environment.

Disposal considerations

Waste disposal route: Used reagent can be disposed in accordance with local regulations. Disposal of empty packaging: Dispose of empty packs by local recycling or waste disposal routes. Clean thoroughly prior to disposal.

Transport information

Special precautions: None known.
 Proper shipping name: Not dangerous goods according to transport regulations.
 National transport regulations: No additional national transport regulations are known to the supplier.
 IMDG: Non-hazardous for sea freight.
 ADR: Non-hazardous for road transport.
 RID: Non-hazardous for rail transport.
 ICAO/IATA: Non-hazardous for air transport.





SARA (Superfund and Reauthorization Act)

Section 355 (extremely hazardous substances):

Section 313 (Specific toxic chemical listings):

TSCA (Toxic Substances Control Act):

Proposition 65

Chemicals known to cause cancer:

Chemicals known to cause reproductive toxicity:

None of the ingredients are listed.

None of the ingredients are listed.

All ingredients are listed.

None of the ingredients are listed.

None of the ingredients are listed.

Regulatory information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. PureDireX (Bio-Helix) shall not be held liable for any damage resulting from handling or from contact with the above product.