



## Genomic DNA Isolation Kit (Blood/Cultured Cell/Fungus) (Column Based)

### Identification of the product / Substance and of the company

Product Name: Genomic DNA Isolation Kit (Blood/Cultured Cell/Fungus) (Column Based)

Catalogue number of the product: PDC09-0100(S)

Use of the product: For laboratory use.

Company identification: BIO-HELIX Co., LTD.

Site: <http://www.bio-helix.com>

E-mail: [info@bio-helix.com](mailto:info@bio-helix.com)

### Composition / Information on ingredients

Ingredient:

Buffer CR	0.1-5% Edetic Acid	CAS-No. 6381-92-6
Buffer CC	0.1-5% Edetic Acid	CAS-No. 6381-92-6
	0.5-2% Sodium Dodecyl Sulphate	CAS-No. 151-21-3
Buffer CB	5-10% Guanidine Hydrochloride	CAS-No. 50-01-1
Buffer W1	5-10% Guanidine Hydrochloride	CAS-No. 50-01-1
Buffer W2	No hazardous substances in concentration to be declared	
Buffer RE	No hazardous substances in concentration to be declared	

Other components:

Components not listed here are not dangerous or their concentration do not exceed the limits specified in the EU directive 1999/45/EC.

### Hazards identification

Edetic Acid

Signal word: Warning

Acute oral toxicity: Category 5

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.

Sodium Dodecyl Sulphate

Signal: Danger

Acute oral toxicity: Category 4

Acute inhalation toxicity: Category 4

Skin irritation: Category 2

Eye damage/eye irritation: Category 1

Flammable solids: Category 2



Hazard statements: Cause eye damage. Harmful if swallowed, in contact skin, or inhaled. May cause respiratory 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.

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.

## First Aid Measures

Edetic Acid:

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.

Sodium Dodecyl Sulphate:

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:

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.

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.

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.

## 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

Buffer CR      Form: liquid      Miscibility with water: immiscible      pH: 8.0

Buffer CC      Form: liquid      Miscibility with water: immiscible      pH: 8.5





Buffer CB	Form: liquid	Miscibility with water: immiscible	pH: 4.5
Buffer W1	Form: liquid	Miscibility with water: immiscible	pH: 7.0
Buffer W2	Form: liquid	Miscibility with water: immiscible	pH: 7.5
Buffer RE	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

### Edetic Acid

Acute oral toxicity: LD50 rat 4,500 mg/kg.  
Skin corrosion/irritation: rabbit – No skin irritation – 20 hrs.  
Eye damage: Causes eye irritation.

### Sodium Dodecyl Sulphate

Acute oral toxicity: LD50 rat 977 mg/kg.  
Skin corrosion/irritation: rabbit – Irritations.  
Eye damage: Irreversible effects on the eye.

### Guanidine Hydrochloride

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

## 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.

## Regulatory information

SARA (Superfund and Reauthorization Act)

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity:

None of the ingredients are listed.

## Other 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.