10x Taq DNA polymerase buffer

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

Preparation Name:

10x Taq DNA polymerase buffer

Use of the preparation:

For laboratory use.

Suitable for use as molecular weight standards for SDS-PAGE electrophoresis.

Company identification:

BIO-HELIX Co.,LTD.

Site: http://www.bio-helix.com E-mail: info@bio-helix.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Water	>95% (v/v)	EC#231-791-2	CAS#7732-18-5
Potassium chloride	< 1% (w/v)	EC#231-211-8	CAS#7447-40-7
Triton X-100	1% (v/v)	EC#	CAS#9002-93-1
Tris-HCl	3% (w/v)	EC# 214-684-5	CAS#1185-53-1
Magnesium sulfate	< 1% (w/v)	EEC#231-298-2	CAS#7487-88-9
Ammonium sulfate	< 2% (w/v)	EC#231-984-1	CAS#7783-20-2

Ingredients indicated above do not present a health or environmental hazard within the meaning of Council Directive 67/548/EEC, or their concentrations do not exceed the limits specified in Council Directive 1999/45/EC, and in Commission Directive 2001/58/EC.

3. HAZARDS IDENTIFICATION

The preparation is not classified as dangerous according to Directive 1999/45/EC or Directive 67/548/EC, and is not labeled with danger symbols or indications of danger.

Hazards deriving from physical-chemical properties:

The data available do not support any physical or chemical hazard.

Human health hazards:

Inappropriate handling may cause formation of aerosols. Inhalation of aerosols may cause allergic type reactions in sensitized individuals. Prolonged skin contact may cause minor irritation. Caution: Avoid inhalation, ingestion, and skin contacts.

Environmental hazards:

The data available do not support any environmental hazard.



4. FIRST-AID MEASURES

Ingestion:

If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in event of any complaints.

Inhalation:

If inhaled, remove victim from area of exposure. If symptoms of irritation or respiratory allergy occur, consult a doctor.

Skin contact:

Generally, the product does not irritate the skin. If symptoms of irritation after prolonged exposure occur, consult a doctor.

Eye contact:

In case of contact, wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

5. FIRE-FIGHTING MEASURES

The preparation cannot cause fire.

Suitable extinguishing agents:

Water spray, Carbon Dioxide, dry chemical powder or appropriate foam.

Not suitable extinguishing agents:

None.

Special exposure hazards from decomposition products:

Not thoroughly investigated.

Protective equipment:

Wear self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear appropriate gloves (see Section 8), safety glasses to clean small releases/spillage. In case of vapor/aerosol formation, wear suitable respiratory protection means. Ventilate the area.

Environmental precautions:

No special measures required.

Methods for cleaning up:

Absorb spillages with liquid-binding material. Ventilate and wash the area after the spillage is completely removed.

Additional information:

No dangerous substances are released.



7. HANDLING AND STORAGE

Handling:

No further requirements.

Use appropriate personal protection measures (see Section 8). Avoid any contact with the liquid.

Avoid the formation of aerosols. Ventilate area.

Storage:

Store at - 20°C.

None other specific requirements relating to the preparation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that need to be monitored at the workplace.

General protective and hygienic measures:

The usual precautionary measures are the same as for chemicals handling.

Engineering measures:

None specific requirements relating to the preparation.

Personal protection:

- Respiratory protection: No special measures required.
- Hand protection: Wear rubber gloves. None special requirements to rubber.
- Eye protection: No need to wear glasses (goggles) when ordinary operations with the preparation. Safety glasses are recommended during certain operations when aerosol formation is possible.
- Skin protection: The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns). None specific requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solution.

Color: Colorless. Odor: Odorless.

pH-value at 25°C: 8.8. Boiling point: 100°C.

Flash Point: Not applicable.

Flammability / autoflammability: The preparation is not flammable/self-igniting. Explosive properties: The preparation does not possess explosive properties.

Oxidizing properties: Not applicable. Vapor pressure: Not applicable.

Relative density at 20°C: ~1.03 g/cm3.

Solubility in/miscibility with water: Fully miscible.

Fat solubility: Not applicable.
Vapor density: Not applicable.
Evaporation rate: Not applicable.
Conductivity: Not applicable.

Viscosity: Not viscous.



10. STABILITY AND REACTIVITY

Stability:

Stable under storage conditions (see Section 7).

Conditions to avoid:

No conditions which may cause dangerous reactions.

Possibility of hazardous reactions:

No dangerous reactions known.

Materials to avoid:

No materials which may cause dangerous reactions.

Hazardous decomposition products:

No dangerous decomposition products known.

Hazardous polymerization:

Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of exposure:

Inhalation: Inhalation of aerosols may cause allergic type reactions in sensitized individuals.

Ingestion: Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract.

Skin and eye contact: Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effect.

The product is not listed in a priority list as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of the existing substances.

12. ECOLOGICAL INFORMATION

General notes:

The preparation is considered slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

No special disposal methods required, except to be in accordance with current local environmental regulations.



14. 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.

Other information:

The preparation may be stored in ice during the transportation.

15. REGULATORY INFORMATION

US

Labelling according to US Regulations: Caution: Avoid contact and inhalation.

US Regulatory information: SARA LISTED: No.

EU

Labelling according to EU Guidelines: The preparation is not dangerous within the meaning of Directives 67/548/EC, 1999/45/EC, and 88/379/ECC, and is not labelled with danger symbols or indications of danger.

Canada

WHMIS classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No. NDSL: No.

16. 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. GeneDireX shall not be held liable for any damage resulting from handling or from contact with the above product.

