

Material Safety Data Sheet

According to EC directive 2001/58/EC



FAVORGEN
BIOTECH CORP.

Blood Genomic DNA Extraction Kit

Processing date 01.03.2017

Version 1

Printing date 10.03.2017

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Commercial Product Name: Blood Genomic DNA Extraction Kit

Cat. No.: FABGK 100 / 300

Supplier: Favorgen Biotech Corp.

Address: Ping - Tung Agricultural Biotechnology Park No.37, Nong-ke Rd., Ping-Tung 908, Taiwan

Phone Number: 886-8-762-1829

Fax: 886-8-762-0791

Emergency telephone number: 886-8-762-1829

2. CHEMICAL CHARACTERISATION

RBC Lysis Buffer: 1 piece(s)

0.1-5 % Edetic acid disodium salt dihydrate (EDTA); CAS-No. 6381-92-6

GT Buffer: 1 piece(s)

0.1-5 % Edetic acid disodium salt dihydrate (EDTA); CAS-No. 6381-92-6

0.5-2 % Sodium dodecylsulfate; CAS-No. 151-21-3

GB Buffer: 1 piece(s)

30-60 % Guanidine-hydrochloride; CAS-No. 50-01-1

W1 Buffer: 1 piece(s)

30-60 % Guanidine-hydrochloride; CAS-No. 50-01-1

Wash Buffer: 1 piece(s)

Contains no hazardous substances in concentrations to be declared

EB Buffer: 1 piece(s)

Contains no hazardous substances in concentrations to be declared

3. HAZARDS IDENTIFICATION

Classification: Harmful

Warnings: Harmful by inhalation and if swallowed. Irritating to eyes and skin.

Note: slightly hazardous to water and ground.

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4. FIRST AID MEASURES

Skin contact: Wash skin with water thoroughly.

Eye contact: Promptly wash eyes with water for at least 15 minutes, if necessary seek medical advice.

Ingestion: Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Extinguishing media: No restriction.

Decomposition: Dangerous decomposition is not anticipated.

6. ACCIDENTAL RELEASE MEASURES

Actions to be taken on spillage: Sweep up spilled solids carefully. 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.

7. HANDLING AND STORAGE

Handling: Liquid is not inflammable. Liquid is not combustible. Open and handle vessels carefully.

Storage: Store at room temperature.

Do not store together with: No restriction.

8. 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 breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

RBC Lysis Buffer

Form: liquid

Miscibility with water: immiscible

pH : 8.0

GT Buffer

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Form: liquid
Miscibility with water: immiscible
pH : 7.5

GB Buffer

Form: liquid
Miscibility with water: immiscible
pH : 13

W1 Buffer

Form: liquid
Miscibility with water: immiscible
pH : 7.0

Wash Buffer

Form: liquid
Miscibility with water: immiscible
pH : 7.5

Elution Buffer

Form: liquid
Miscibility with water: immiscible
pH : 8.5

10. STABILITY AND REACTIVITY

Hazardous reactions: none under normal use

Hazardous decomposition products: none

11. TOXICOLOGICAL INFORMATION

RBC Lysis Buffer

Edetic acid disodium salt dihydrate (EDTA)

Oral toxicity: LD50 rat 2.000 mg/kg

Toxicity (others): LD50 oral rabbit 2.300 mg/kg

LD50 (intravenous, mouse) 56 mg/kg

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GT Buffer

Sodium dodecylsulfate

Oral toxicity: LD50 rat 1.288 mg/kg

Ethic acid disodium salt dihydrate (EDTA)

Oral toxicity: LD50 rat 2.000 mg/kg

Toxicity (others): LD50 oral rabbit 2.300 mg/kg

LD50 (intravenous, mouse) 56 mg/kg

GB Buffer

Guanidine-hydrochloride

Oral toxicity: LD50 rat 475 mg/kg

Toxicity (inhalation): LD50 rat 5.3 mg/l (4 h)

Toxicity (others): LD50 intraperitoneal mouse 500 mg/kg

W1 Buffer

Guanidine-hydrochloride

Oral toxicity: LD50 rat 475 mg/kg

Toxicity (inhalation): LD50 rat 5.3 mg/l (4 h)

Toxicity (others): LD50 intraperitoneal mouse 500 mg/kg

Acute toxicity:

Primary irritant effect:

On the skin: irritant to skin and mucous membranes.

On the eye: irritating effect.

Sensitization: No sensitizing effects known.

12. ECOLOGICAL INFORMATION

Water hazard class: 1 slightly hazardous to water and ground

13. DISPOSAL CONSIDERATIONS

Waste disposal route: Used reagent can be disposed of in the waste water in accordance with local regulations.

Disposal of empty packaging: Dispose of empty packs by local recycling or waste disposal routes if necessary, clean them beforehand.

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14. TRANSPORT INFORMATION

- **Land transport ADR/RID (cross-border):** None
- **ADR/RID class:** None
- **Maritime transport IMDG:** None
- **IMDG Class:** None
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:** Not dangerous according to the above specifications.
- **ICAO/IATA Class:** None restricted
- **Transport/Additional information:** Not dangerous according to the above specifications.

15. REGULATIONS

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Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): None of the ingredients is listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65

Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity: None of the ingredients is listed.

Hazard symbol: Harmful

Risk phrases: irritating to eyes and skin

Product related hazard information:

The product has been classified and in accordance with directives on hazardous materials.

National regulations:

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15. OTHER INFORMATION

This information is based on our present knowledge.