

Material Safety Data Sheet

According to EC directive 2001/58/EC



FAVORGEN
BIOTECH CORP.

Blood/ Cultured Cell Genomic DNA Extraction Midi Kit

Processing date 23.07.2013

Version 1

Printing date 23.07.2013

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Commercial Product Name: Blood/Cultured cell Genomic DNA Extraction Midi Kit

Cat. No.: FABGK 002/ 002-1

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

FABG buffer: 1 piece(s)

Ingredients 25-50% M Guanidinium chloride; CAS-No.00050-01-1

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

Elution buffer: 1 Piece (s)

No hazardous substances in concentrations to be declared.

Proteinase K: 1 Piece (s)

No hazardous substances in concentrations to be declared.

3. HAZARDS IDENTIFICATION

Classification: Slightly Harmful

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

Note: slightly hazardous to water and ground.

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.

Material Safety Data Sheet

According to EC directive 2001/58/EC



FAVORGEN
BIOTECH CORP.

Blood/ Cultured Cell Genomic DNA Extraction Midi Kit

Processing date 23.07.2013

Version 1

Printing date 23.07.2013

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

FABG buffer

Form: liquid

Miscibility with water: immiscible

pH : 13

W1 Buffer

Form: liquid

Miscibility with water: immiscible

pH : 7.0

Material Safety Data Sheet

According to EC directive 2001/58/EC



FAVORGEN
BIOTECH CORP.

Blood/ Cultured Cell Genomic DNA Extraction Midi Kit

Processing date 23.07.2013

Version 1

Printing date 23.07.2013

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

FABG 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.

Material Safety Data Sheet

According to EC directive 2001/58/EC



FAVORGEN
BIOTECH CORP.

Blood/ Cultured Cell Genomic DNA Extraction Midi Kit

Processing date 23.07.2013

Version 1
Printing date 23.07.2013

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.

14. TRANSPORT INFORMATION

DOT regulations

Hazard class: -

Land transport ADR/RID (cross-border)

ADR/RID class: -

Maritime transport IMDG

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class: **None restricted**

15. REGULATIONS

Sara

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.

Material Safety Data Sheet

According to EC directive 2001/58/EC



Blood/ Cultured Cell Genomic DNA Extraction Midi Kit

FAVORGEN[®]
BIOTECH CORP.

Version 1

Processing date 23.07.2013

Printing date 23.07.2013

National regulations:

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

16. OTHER INFORMATION

This information is based on our present knowledge.