



FAVORGEN[®]
BIOTECH CORP.

Office: Ping-Tung Agricultural Biotechnology Park No.37, Nong-Ke Rd., Ping-Tung 908, Taiwan

TEL: +886-8-762-1829 FAX: +886-8-762-0791 Website: www.favorgen.com

Material Safety Data Sheet

According to EC directive 2008/1272/EC

Plasmid DNA Extraction Mini Kit

Version 3

Processing date 22.01.2018

Printing date 22.01.2018

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION

Commercial Product Name: Plasmid DNA Extraction Mini Kit

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

Emergency telephone number: +886-982-951-501

2. CHEMICAL CHARACTERISATION

FAPD1 Buffer: 1 piece(s)

0.1~0.5 % Sodium dodecylsulfate; CAS-No. 151-21-3

FAPD2 Buffer: 1 piece(s)

0.1~0.5 % Sodium hydroxide; CAS-No. 1310-73-2 UN-No. 1823

0.1~0.5 % Sodium dodecylsulfate; CAS-No. 151-21-3

FAPD3 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)

0.1~0.5 % Sodium dodecylsulfate; CAS-No. 151-21-3

Elution Buffer: 1 piece(s)

Water, contains no hazardous substances in concentrations to be declared

RNase A: 1 piece(s)

Water, 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

FAPD1 Buffer

Form: liquid

Miscibility with water: immiscible

pH : 7.6

Boiling Point: 110°C.



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Melting Point: Decomposes

FAPD2 Buffer

Form: liquid

Miscibility with water: immiscible

Boiling Point: 110°C.

Melting Point: Decomposes pH : 9

FAPD3 Buffer

Form: liquid

Miscibility with water: immiscible

pH : 4.5

Boiling Point: 110°C.

Melting Point: Decomposes

W1 Buffer

Form: liquid

Miscibility with water: immiscible

pH : 7.0

Boiling Point: 110°C.

Melting Point: Decomposes

Wash Buffer

Form: liquid

Miscibility with water: immiscible

pH : 7.5

Boiling Point: 110°C.

Melting Point: Decomposes

Elution Buffer

Form: liquid

Miscibility with water: immiscible

pH : 8.5

Boiling Point: 110°C.

Melting Point: Decomposes

RNase A

Form: liquid



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Miscibility with water: immiscible

pH : 7.0

Boiling Point: 110°C.

Melting Point: Decomposes

10. STABILITY AND REACTIVITY

Hazardous reactions: none under normal use

Hazardous decomposition products: none

11. TOXICOLOGICAL INFORMATION

FAPD2 Buffer

Sodium hydroxide

Toxicity (others): LD50 intraperitoneal mouse 1040 mg/kg

LDLo (oral, rabbit) 1000 mg/kg

Sodium dodecylsulfate

Oral toxicity: LD50 rat 1020 mg/kg

FAPD3 Buffer

Guanidine-hydrochloride

Oral toxicity: LD50 rat 1320 mg/kg

Toxicity (inhalation): LD50 rat 1330 mg/l (4 h)

Toxicity (others): LD50 intraperitoneal mouse 1500 mg/kg

W1 Buffer

Guanidine-hydrochloride

Oral toxicity: LD50 rat 1320 mg/kg

Toxicity (inhalation): LD50 rat 1330 mg/l (4 h)

Toxicity (others): LD50 intraperitoneal mouse 1500 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.



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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

- *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 REGULATED AS A DANGEROUS GOOD*
- *ICAO/IATA Class: None restricted*
- *Transport/Additional information: Not dangerous according to the above specifications.*

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.

National regulations:



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

16. OTHER INFORMATION

This information is based on our present knowledge.