



SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 04/20/2012
Date Updated: 07/20/2009
Version: 1.40

Section 1 - Product and Company Information

Product Name GenEute™ Direct mRNA Miniprep Kit, Sufficient for 10 purifications
Product Number DMN10
Brand Sigma Chemical
Company Address Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS, MO 63103 US
City, State, Zip, Country
Technical Phone: 800-325-8332
Fax: 800-325-5052
Emergency Phone: 314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313	EC no	Annex/Lindax Number
SODIUM CHLORIDE SOLUTION 5M	None	No	231-598-3	
Ingredient Name	CAS #	Percent	SARA 313	
WATER	7732-18-5	>= 70.000 %		
SODIUM CHLORIDE	7647-14-5	>= 25.000 % <= 30.000 %	No	

Formula
Synonyms

Section 3 - Hazards Identification

HMS Rating
Health: 0 Flammability: 0 Reactivity: 0
NFPA Rating
Health: 0 Flammability: 0 Reactivity: 0
For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure
If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation Exposure
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
Dermal Exposure
In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A
Extinguishing Media
Suitable
Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.
Firefighting Protective Equipment
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s)
Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Methods for Cleaning Up
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling
User Exposure
Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
Storage
Storable
Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls
Safety shower and eye bath; Mechanical exhaust required.
Personal Protective Equipment
Respiratory
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges.
Hand
Protective gloves.
Eye
Chemical safety goggles.
General Hygiene Measures
Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance
Physical State
Clear liquid
Color
Colorless

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Page 2
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PH 6 - 8
BP/BP Range N/A
MP/MP Range N/A
Freezing Point N/A
Vapor Pressure N/A
Vapor Density N/A
Saturated Vapor Conc. N/A
SG/Density 1.19 g/cm3
Bulk Density N/A
Odor Threshold N/A
Volatiles% N/A
VOC Content N/A
Water Content N/A
Solvent Content N/A
Evaporation Rate N/A
Viscosity N/A
Partition Coefficient N/A
Decomposition Temp. N/A
Flash Point °F N/A
Flash Point °C N/A
Explosion Limits N/A
Flammability N/A
Autoignition Temp N/A
Solubility N/A
N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable
Stable
Materials to Avoid
Strong oxidizing agents
Hazardous Decomposition Products
Hazardous Decomposition Products
Hydrogen chloride gas
Hazardous Polymerization
Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Route of Exposure
Skin Contact
May cause skin irritation.
Skin Absorption
May be harmful if absorbed through the skin.
Eye Contact
May cause eye irritation.
Inhalation
May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion
May be harmful if swallowed.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number: N/A

Section 12 - Ecological Information

No data available

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport This substance is considered to be nonhazardous for transport.
IATA
Non-Hazardous for Air Transport Non-hazardous for air transport.

Section 15 - Regulatory Information

United States Regulatory Information
SARA Listed: No
Canada Regulatory Information
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

Section 16 - Other Information

Disclaimer
For R&D use only. Not for drug, household or other uses

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice packing slip for additional terms and conditions of sale. Copyright 2012 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.



SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 04/20/2012
Date Updated: 01/26/2006
Version 1.20

Section 1 - Product and Company Information

Product Name GeneElute™ Direct mRNA Miniprep Kit, Sufficient for 10 purifications
Product Number DMN10
Brand Sigma Chemical
Company Sigma-Aldrich
Street Address 3050 Spruce Street
City, State, Zip, Country SAINT LOUIS, MO 63103 US
Technical Phone: 800-325-6832
Fax: 800-325-5052
Emergency Phone: 314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313	EC no	Annex Index Number
GENELUTE DIRECT mRNA FROM ANIMAL CELLS AND TISSUE MINIPREP KIT	None	No		

The hazards identified with this kit are those associated with the following substances. For additional information, please refer to the individual material safety data sheet(s).

Kit Components:

LYSIS SOLUTION
40% Glycerol FOR DIRECT mRNA
LOW SALT WASH BUFFER
OLIGO(DT) BEADS
ELUTION SOLUTION
SODIUM CHLORIDE SOLUTION 5M
PROTEINASE K
WASH BUFFER

Section 3 - Hazards Identification

Emergency Overview

Harmful.
Harmful in contact with skin and if swallowed/irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.
Sodium azide may react with lead and copper plumbing to form highly explosive metal azides (target organ(s): Kidneys, Lungs).

HMIS Rating

Health: 3* Flammability: 0 Reactivity: 1

NFPA Rating

Health: 3 Flammability: 0 Reactivity: 1

* additional chronic hazards present.

Section 14 - Transport Information

DOT

Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be nonhazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xn

Indication of Danger: Harmful.

Risk Statements R: 36/37/38 42

Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.

Safety Statements S: 22 24 26 36/37

Do not breathe dust. Avoid contact with skin. In case of contact with eyes, nose immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

US Classification and Label Text

Indication of Danger: Harmful.

Risk Statements

Harmful in contact with skin and if swallowed/irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.

Safety Statements

Do not breathe dust. Avoid contact with skin. In case of contact with eyes, nose immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

US Statements

Sodium azide may react with lead and copper plumbing to form highly explosive metal azides (target organ(s): Kidneys, Lungs).

United States Regulatory Information

SARA Listed: No

Section 16 - Other Information

Warranty

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