



SIGMA-ALDRICH

Material Safety Data Sheet

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Version: 1.50

Section 1 - Product and Company Information

Product Name	GenElute™ Direct mRNA Miniprep Kit, Sufficient for 10 purifications
Product Number	DMN10
Brand	Sigma Chemical
Company	Sigma-Aldrich
Street Address	3050 Spauldine Street
City, State, Zip, Country	SAINT LOUIS, MO 63103 US
Technical Phone:	800-325-5832
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
LYSIS SOLUTION	None	No		
Ingredient Name	CAS #	Percent	SARA 313	
Information regarding the specific chemical identity of this material is being withheld as a trade secret of the manufacturer.				
SODIUM CHLORIDE	7647-14-5	1,200 %	No	
MAGNESIUM CHLORIDE HEXAHYDRATE	7791-18-6	0,300 %	No	
SODIUM DODECYL SULFATE	151-21-3	2,000 %	No	
TRIS (HYDROXYMETHYL) AMINOMETHANE	1185-53-1	3,200 %	No	
HYDROCHLORIDE SALT				

Formula
Synonyms

Section 3 - Hazards Identification

Emergency Overview	Toxic (USA) Harmful (EU). Harmful by inhalation; in contact with skin and if swallowed. May cause sensitization by inhalation. Irritating to eyes, respiratory system and skin. Severe eye irritant. Target organ(s): Lungs.
HMIS Rating	Health: 3
Flammability:	0
Reactivity:	0
NFPA Rating	Health: 3
Flammability:	0
Reactivity:	0

*additional chronic hazards present

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. Assume 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

- Procedure to be Followed in Case of Leak or Spill**
Evacuate area.
- Procedure(s) of Personal Precaution(s)**
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.
- 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
Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
- Storage**
Suitable
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). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose

combination (US) or type AXBEC (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a fullface supplied air respirator.

Hand

Compatible chemical-resistant gloves.

Eye

Chemical safety goggles.

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Physical State
Liquid

Molecular Weight

N/A

pH

N/A

BP/MP 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

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

Nature of decomposition products not known

Hazardous Polymerization
Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

Causes skin irritation.

Skin Absorption

Harmful if absorbed through skin.

Eye Contact

Causes eye irritation.

Inhalation

Harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion

Harmful if swallowed.

Sensitization

Sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Target Organ(s) or System(s)

Lungs.

Signs and Symptoms of Exposure

The sodium salt of dodecyl sulfate has been reported to cause pulmonary sensitization resulting in hyperactive airway dysfunction and pulmonary allergy accompanied by fatigue, malaise, and itching. Significant symptoms of exposure can persist for more than two years and can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes, and passive smoking to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTCS 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

EU Additional Classification

Symbol of Danger: Xn
Indication of Danger

Harmful.

Risk Statements R: 20/21/22 42, 36/37/38

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

Safety Statements S: 23, 26, 36/37, 45

Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US Classification and Label Text

Indication of Danger

Toxic (USA) Harmful (EU).

Risk Statements

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

Safety Statements

Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US Statements

Severe eye irritant. Target organ(s): Lungs.

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. SigmaAldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2012 SigmaAldrich Co. License granted to make unlimited paper copies for internal use only.