

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 8.0

Revision Date 15.07.2021

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : GenElute™ Bacterial Genomic DNA Kits

Product Number : NA2110

Brand : Sigma

REACH No. : This product is a mixture. REACH Registration Number see section 3.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Pte Ltd  
(Co. Registration No. 199403788W)  
1 Science Park Road  
#02-14 The Capricorn, S'pore Sci. PkII  
SINGAPORE 117528  
SINGAPORE

Telephone : +65 6779-1200

Fax : +65 6779-1822

### 1.4 Emergency telephone

Emergency Phone # : 1-800-262-8200

This is a summary MSDS for a kit. For the full MSDS for each of the components listed in section 16 please visit our website.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3), H226

Corrosive to Metals (Category 1), H290

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Respiratory sensitization (Category 1), H334

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 2), H411



For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H226

Flammable liquid and vapor.

H290

May be corrosive to metals.

H302

Harmful if swallowed.

H315

Causes skin irritation.

H318

Causes serious eye damage.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H336

May cause drowsiness or dizziness.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

P301 + P312

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none

### Reduced Labeling (<= 125 ml)

Pictogram



Signal word

Danger

Hazard statement(s)

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H318

Causes serious eye damage.

Precautionary statement(s)

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none



### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

Refer to component MSDS

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## SECTION 4: First aid measures

Refer to component MSDS

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## SECTION 5: Firefighting measures

Refer to component MSDS

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## SECTION 6: Accidental release measures

Refer to component MSDS

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Store in cool place. No metal containers.

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8: Exposure controls/personal protection

Refer to component MSDS



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**SECTION 9: Physical and chemical properties**

Refer to component MSDS

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**SECTION 10: Stability and reactivity**

Refer to component MSDS

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**SECTION 11: Toxicological information**

Refer to component MSDS

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**SECTION 12: Ecological information**

Refer to component MSDS

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**SECTION 13: Disposal considerations**

Refer to component MSDS

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**SECTION 14: Transport information****14.1 UN number**

ADR/RID: 3316

IMDG: 3316

IATA: 3316

**14.2 UN proper shipping name**

ADR/RID: CHEMICAL KIT

IMDG: CHEMICAL KIT

IATA: Chemical kit

**14.3 Transport hazard class(es)**

ADR/RID: 9

IMDG: 9

IATA: 9

**14.4 Packaging group**

ADR/RID: III

IMDG: III

IATA: III

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6 Special precautions for user**

No data available

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Refer to component MSDS

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out



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**SECTION 16: Other information****Kit Components:**

|  |       |       |   |
|--|-------|-------|---|
| GramPositive Lysis Solution                            | Sigma | L7539 |   |
| Lysis Solution T                                       | Sigma | B6678 |   |
| Lysis Solution C                                       | Sigma | B8803 | Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 2; H302, H315, H318, H410 |
| Wash Solution 1  | Sigma | W0263 | Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H226, H302, H315, H319, H336    |
| Wash Solution Concentrate                              | Sigma | B6553 |   |
| Elution Solution (10 mM Tris-HCl, 0.5 mM EDTA, pH 9.0) | Sigma | B6803 |   |
| Column Preparation Solution                            | Sigma | C2112 | Met. Corr. 1; Skin Irrit. 2; Eye Irrit. 2; H290, H315, H319   |
| Proteinase K, from Tritirachium album                  | Sigma | P2308 | Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; H315, H319, H334  |
| RNase A solution                                       | Sigma | R6148 | Resp. Sens. 1; H334   |

**Further information**

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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 Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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**Kit Components:**

| <b>GramPositive Lysis Solution</b> |           |             |                   |                          |   |
|------------------------------------|-----------|-------------|-------------------|--------------------------|---|
| Product identifier                 | Pictogram | Signal word | Hazard Statements | Precautionary Statements | Supplemental information  |
| Sigma - L7539                      |           |             |                   |                          | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

| <b>Lysis Solution T</b> |           |             |                   |                          |   |
|-------------------------|-----------|-------------|-------------------|--------------------------|---|
| Product identifier      | Pictogram | Signal word | Hazard Statements | Precautionary Statements | Supplemental information  |
| Sigma - B6678           |           |             |                   |                          | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

| <b>Lysis Solution C</b> |   |             |  |  |                          |
|-------------------------|---|-------------|--|--|--------------------------|
| Product identifier      | Pictogram   | Signal word | Hazard Statements  | Precautionary Statements   | Supplemental information |
| Sigma - B8803           |  | Danger      | Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life with long lasting effects. | Wash skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Avoid release to the environment. IF ON SKIN: Wash with plenty of water. Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if |                          |



|  |  |  |  |   |  |
|--|--|--|--|---|--|
|  |  |  |  | present and easy to do. Continue rinsing. |  |
|--|--|--|--|---|--|

**Wash Solution 1**

| Product identifier | Pictogram   | Signal word | Hazard Statements   | Precautionary Statements  | Supplemental information |
|--------------------|---|-------------|---|---|--------------------------|
| Sigma - W0263      |  | Warning     | Flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Keep container tightly closed. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Ground and bond container and receiving equipment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |                          |

**Wash Solution Concentrate**

| Product identifier | Pictogram | Signal word | Hazard Statements | Precautionary Statements | Supplemental information  |
|--------------------|-----------|-------------|-------------------|--------------------------|---|
| Sigma - B6553      |           |             |                   |                          | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |



| <b>Elution Solution (10 mM Tris-HCl, 0.5 mM EDTA, pH 9.0)</b> |           |             |                   |                          |   |
|---|-----------|-------------|-------------------|--------------------------|---|
| Product identifier  | Pictogram | Signal word | Hazard Statements | Precautionary Statements | Supplemental information  |
| Sigma - B6803   |           |             |                   |                          | Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008. |

| <b>Column Preparation Solution</b> |   |             |  |  |                          |
|------------------------------------|---|-------------|--|--|--------------------------|
| Product identifier                 | Pictogram   | Signal word | Hazard Statements  | Precautionary Statements   | Supplemental information |
| Sigma - C2112                      |  | Warning     | May be corrosive to metals. Causes skin irritation. Causes serious eye irritation. | Keep only in original packaging. IF ON SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear protective gloves/ eye protection/ face protection. If skin irritation occurs: Get medical advice/ attention. |                          |

| <b>Proteinase K, from <i>Tritirachium album</i></b> |   |             |   |   |                          |
|---|---|-------------|---|---|--------------------------|
| Product identifier                                  | Pictogram   | Signal word | Hazard Statements   | Precautionary Statements  | Supplemental information |
| Sigma - P2308                                       |  | Danger      | Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. | Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. IF ON SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse |                          |



|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  | cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear protective gloves/ eye protection/ face protection. Wear respiratory protection. |  |
|--|--|--|--|--|--|

| <b>RNase A solution</b> |   |             |  |  |                          |
|-------------------------|---|-------------|--|--|--------------------------|
| Product identifier      | Pictogram   | Signal word | Hazard Statements  | Precautionary Statements   | Supplemental information |
| Sigma - R6148           |  | Danger      | May cause allergy or asthma symptoms or breathing difficulties if inhaled. | Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Dispose of contents/ container to an approved waste disposal plant. Wear respiratory protection. |                          |

