Safety Data Sheet

Cat. # 786-489

RIPA Lysis and Extraction Buffer

Size: 100ml
SECTION 1: Identification

1.1. Identification

Product form: Mixture
Product name: RIPA Lysis and Extraction Buffer
Product code: 044R

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Geno Technology, Inc./ G-Biosciences
9800 Page Avenue
Saint Louis, 63132 - 1429 - United States
T 800-628-7730 - F 314-991-1504
technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification
Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labeling
No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Common Name (Synonyms)</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium desoxycholate</td>
<td>3 alpha, 12 alpha-dihydroxy-5-betha-cholan-24-oc acid, sodium salt / 3,12-dihydroxy-cholan-24-oc acid monosodium salt, (3-alpha, 3-alpha,12-alpha-dihydroxy-5-beta-cholan-24-oc acid, sodium salt / 5-beta-cholan-24-oc acid, 3-alpha, 12-alpha-dihydroxy-, sod / cholan-24-ocic acid, 3,12-dihydroxy-, monosodium salt, (3alpha,5beta,12alpha)-/ deoxycholate sodium / deoxycholic acid sodium salt / deoxycholic acid, sodium salt / deoxycholate sodium / dihydroxy 3-12 cholanate de Na / Na-deoxycholat / natrium-3-alpha-12-alfa-dihydroxy-5-beta-cholaan-24-oaat / Natrium-3-alpha,12-alpha-dihydroxycholanat / sodium 7-deoxycholate / sodium deoxycholate / sodium deoxycholic acid</td>
<td>(CAS-No.) 302-95-4</td>
<td>0.5 - 2</td>
<td>Acute Tox. 4 (Oral), H302 STOT SE 3, H335</td>
</tr>
<tr>
<td>Name</td>
<td>Common Name (Synonyms)</td>
<td>Product identifier</td>
<td>%</td>
<td>GHS-US classification</td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------</td>
<td>------------</td>
<td>------------------------------------------------------------</td>
</tr>
</tbody>
</table>
SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Wash skin with plenty of water.
First-aid measures after eye contact: Rinse eyes with water as a precaution.
First-aid measures after ingestion: Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


5.2. Specific hazards arising from the chemical

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a well-ventilated place. Keep cool.
Storage temperature: RT

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium deoxycholate (302-95-4): Not applicable
sodium dodecyl sulphate (151-21-3): Not applicable
8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.
Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Color: Clear
Odor: None
Odor threshold: No data available
pH: No data available
pH solution: 7.6
Melting point: Not applicable
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): Not applicable.
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: No data available
Solubility: No data available
Log P: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.
10.3. **Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

10.4. **Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

10.5. **Incompatible materials**

No additional information available

10.6. **Hazardous decomposition products**

Hazardous decomposition products.

**SECTION 11: Toxicological information**

11.1. **Information on toxicological effects**

Acute toxicity : Not classified

**sodium deoxycholate (302-95-4)**

- LD50 oral rat : 1370 mg/kg (Rat)
- ATE US (oral) : 1370 mg/kg body weight

**sodium dodecyl sulphate (151-21-3)**

- LD50 oral rat : 1200 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value)
- LD50 dermal rat : < 2000 mg/kg (Rat; Literature study)
- LD50 dermal rabbit : > 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male/female, Read-across)
- ATE US (oral) : 1200 mg/kg body weight
- ATE US (dermal) : 1100 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

**SECTION 12: Ecological information**

12.1. **Toxicity**

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. **Persistence and degradability**

**sodium deoxycholate (302-95-4)**

- Persistence and degradability : Biodegradability in water: no data available.

**sodium dodecyl sulphate (151-21-3)**

- Persistence and degradability : Readily biodegradable in water.

12.3. **Bioaccumulative potential**

**sodium deoxycholate (302-95-4)**

- Log Pow : 1.24 (Estimated value)
- Bioaccumulative potential : Low potential for bioaccumulation (Log Kow < 4).

**sodium dodecyl sulphate (151-21-3)**

- BCF fish 1 : 3.9 - 5.3 (72 h, Cyprinus carpio)
# RIPA Lysis and Extraction Buffer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### TABLE 1: Toxicological and Ecological Properties

<table>
<thead>
<tr>
<th>Substance</th>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium dodecyl sulphate (151-21-3)</td>
<td>BCF fish 2</td>
<td>7.15 (Pisces, Chronic)</td>
</tr>
<tr>
<td></td>
<td>Log Pow</td>
<td>&lt;= -2.03 (Calculated, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)</td>
</tr>
<tr>
<td></td>
<td>Bioaccumulative potential</td>
<td>Not bioaccumulative.</td>
</tr>
<tr>
<td>sodium desoxycholate (302-95-4)</td>
<td>Ecology - soil</td>
<td>No (test)data on mobility of the substance available.</td>
</tr>
<tr>
<td>sodium dodecyl sulphate (151-21-3)</td>
<td>Surface tension</td>
<td>0.0252 N/m (23 °C, 1 g/l)</td>
</tr>
<tr>
<td></td>
<td>Log Koc</td>
<td>1.545 (log Koc, SRC PCKOCWIN v2.0, Experimental value)</td>
</tr>
<tr>
<td></td>
<td>Ecology - soil</td>
<td>Highly mobile in soil.</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

#### sodium desoxycholate (302-95-4)

Ecology - soil: No (test)data on mobility of the substance available.

#### sodium dodecyl sulphate (151-21-3)

Surface tension: 0.0252 N/m (23 °C, 1 g/l)

Log Koc: 1.545 (log Koc, SRC PCKOCWIN v2.0, Experimental value)

Ecology - soil: Highly mobile in soil.

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods


## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Other information: No supplementary information available.

### Transportation of Dangerous Goods

Transport by sea

Air transport

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### sodium desoxycholate (302-95-4)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### sodium dodecyl sulphate (151-21-3)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

No additional information available
SECTION 16: Other information

Revision date: 05/11/2017

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.