Safety Data Sheet

Cat. # 786-490

RIPA Lysis & Extraction Buffer

Size: 500ml
# SECTION 1: Identification

## 1. Identification

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>RIPA Lysis and Extraction Buffer</td>
</tr>
<tr>
<td>Product code</td>
<td>044R</td>
</tr>
</tbody>
</table>

## 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 deoxycholate</td>
<td>3 alpha, 12 alpha-dihydroxy-5-beta-cholan-24-oic acid, sodium salt / 3,12-dihydroxy-cholan-24-oic acid monosodium salt, (3-alpha, 3-alpha,12-alpha-dihydroxy-5-beta-cholan-24-oic acid, sodium salt / 5-beta-cholan-24-oic acid, 3-alpha, 12-alpha-dihydroxy-, sod / cholan-24-oic acid, 3,12-dihydroxy-, monosodium salt, (3alpha,5beta,12alpha)-/deoxycholate sodium / deoxycholic acid sodium salt / deoxycholic acid, sodium salt / deoxycholate sodium / 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>
</tbody>
</table>
# RIPA Lysis and Extraction Buffer Safety Data Sheet

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Common Name (Synonyms)</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS US classification</th>
</tr>
</thead>
</table>
Full text of hazard classes and H-statements: see section 16

**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**
No additional information available

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**
- **RIPA Lysis and Extraction Buffer**: No additional information available
- **sodium desoxycholate (302-95-4)**: No additional information available
sodium dodecyl sulphate (151-21-3)
No additional information available

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>pH solution</td>
<td>7.6</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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 (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

sodium desoxycholate (302-95-4)
LD50 oral rat 1370 mg/kg (Rat, Oral)
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, Oral, 14 day(s))
ATE US (oral) 1370 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

sodium desoxycholate (302-95-4)
Specific target organ toxicity – single exposure May cause respiratory irritation.
Specific target organ toxicity – repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

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 desoxycholate (302-95-4)
Persistence and degradability Biodegradability in water: no data available.
### 12.3. Bioaccumulative potential

**sodium dodecyl sulphate (151-21-3)**
- Persistence and degradability: Readily biodegradable in water.

**sodium desoxycholate (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)
- BCF fish 2: 7.15 (Pisces, Chronic)
- Log Pow: <= -2.03 (Calculated, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)

**Bioaccumulative potential**
- Not bioaccumulative.

### 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, EU Method A.5: Surface tension)
- 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.

### Transport 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**
EU-Regulations

National regulations
No additional information available

15.3. US State regulations

SECTION 16: Other information

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

Revision date: 05/11/2017

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H302</th>
<th>Harmful if swallowed</th>
</tr>
</thead>
<tbody>
<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.