

# Safety Data Sheet

according to regulation (EC) No 1907/2006

Product name: Strep-Tactin horseradish peroxidase conjugate

Version: 4.3

Revision date: 01.10.2018



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

### 1.1 Product identifiers

**Product Name:** Strep-Tactin® horseradish peroxidase conjugate

**Product Number:** 2-1502-xxx  
(Lot-No. as a kit component: 0128)

**Part of kits:** 2-1101-001, 2-1102-000, 2-4998-000

#### Registration Number:

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

### 1.2 Relevant identified uses of the substance or mixture

laboratory chemical

#### and uses advised against:

No relevant information available.

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

**Supplier:** IBA GmbH  
Rudolf-Wissell-Str. 28  
37079 Göttingen  
Germany

**Telephone:** +49-551-50672- 0

**E-mail:** info@iba-lifesciences.com

### 1.4 Emergency Telephone Number

**Emergency Phone:** +49 (0)551/ 19240 (Poison Information Center Göttingen)

## 2 Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]** not hazardous

### 2.2 Label elements

**Labeling according to Regulation (EC) No 1272/2008 [CLP]** n/a

### 2.3 Other hazards

To the best of our knowledge, the chemical, physical, and toxicological properties of streptavidin and its muteins have not yet been thoroughly investigated.

IBA GmbH therefore recommends treating these products with the care that is due to unknown chemicals.

## 3 Composition/Information on ingredients

### 3.2 Chemical characterization: Mixtures

#### Hazardous components according to Regulation (EC) No 1272/2008 [CLP]:

Component	CAS-No	%	Classification acc. to (EC) 1972/2008
EDTA (Ethylendia- mintetraacetic acid)	6381-92-6	< 0,06 %	Acute Tox. 4 (inhal.), STOT RE 2 H332, H372
ProClin® 300 (Sigma-Aldrich)	not registered	< 0,05 %	Acute Tox. 4 (oral), Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 H302, H314, H318, H317, H400, H410
4-Dimethylamino- antipyrine	58-15-1	< 0,02 %	Acute Tox. 3 (oral), Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 H301, H315, H319, H335
Gentamicin sulfate	1405-41-0	< 0,01 %	Resp. Sens. 1; Skin Sens. 1 H334; H317

#### Description of product:

Strep-Tactin® m2 is a mutein of streptavidin, an extracellular protein of *Streptomyces avidinii* that binds biotin with high affinity.

The product consists of one molecule of horseradish peroxidase (HRP) bound to each molecule of Strep-Tactin®.

The product is dissolved in buffer with a concentration of 0.95 – 1.05 mg/ml.

## 4 First aid measures

### 4.1 Description of first aid measures



**After inhalation:** Provide fresh air. If feeling unwell, consult a physician.

**After skin contact:** Wash with plenty of soap and water. If skin irritation occurs, consult a physician.

**After eye contact:** Flush eyes with water for at least 10 minutes. If irritation persists, consult a physician.

**After ingestion:** Rinse mouth and drink water if conscious. If feeling unwell, consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

No relevant information available.

### 4.3 Indications of any immediate medical attention and special treatment needed

No relevant information available.

## 5 Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

CO<sub>2</sub>, dry extinguishing powder, foam, or water spray.

#### Unsuitable extinguishing media

No relevant information available.

### 5.2 Special hazards arising from the substance of mixture

No relevant information available.

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary (see section 5.2).

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment.  
Avoid eye and skin contact.

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically.  
Place in appropriate containers for disposal.  
Provide suitable ventilation.

### 6.4 Reference to other sections

Information about safe handling: see section 7.  
Information about protective equipment: see section 8.  
Information for disposal: see section 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.  
Keep containers, equipment, and workplace clean.

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

<b>Storage rooms and containers:</b>	No special requirements.
<b>Incompatible substances or mixtures:</b>	Keep away from food and drink.
<b>Consideration of other advice:</b>	Keep containers tightly closed.
<b>Recommended storage temperature:</b>	2 – 8 °C

### 7.3 Specific end use(s)

No relevant information available.

## 8 Exposure controls/personal protection

### 8.1 Control parameters

**Components with workplace control parameters:** none

### 8.2 Exposure controls

#### General precautionary and hygiene measures

The usual precautions for handling chemicals should be observed.  
Avoid contact with eyes and skin.  
Wash hands before breaks and after work.

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.  
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.  
Inspect gloves prior to each use. Choose suitable gloves according to break through time, permeation rate and material degradation.

#### **Glove material**

Nitrile rubber, minimum layer thickness:  $\geq 0,11$  mm

The suitability of gloves depends on several quality characteristic besides the material. It may differ from one supplier to another.

#### **Break through time**

Break through level: Level  $\geq 6$

The exact break through time should be inquired from the supplier and should be observed.

#### **Eye protection**

Use safety goggles with side protection.

#### **Body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **9 Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	brown liquid
<b>Odor:</b>	odorless
<b>Odor threshold:</b>	no data available
<b>pH:</b>	7.4
<b>Melting point:</b>	no data available
<b>Freezing point:</b>	no data available
<b>Initial boiling point and boiling range:</b>	no data available
<b>Flash point:</b>	no data available
<b>Evaporation rate:</b>	no data available
<b>Upper/lower explosive limits:</b>	no data available
<b>Vapor pressure:</b>	no data available
<b>Vapor density:</b>	no data available
<b>Relative density:</b>	no data available
<b>Water solubility:</b>	no data available
<b>Partition coefficient (n-octanol/water):</b>	no data available
<b>Viscosity:</b>	no data available
<b>Explosive properties:</b>	not explosive
<b>Oxidizing properties:</b>	not oxidizing

### **9.2 Other safety information**

No further relevant information available.

## **10 Stability and reactivity**

### **10.1 Reactivity**

See section 10.3

### **10.2 Chemical stability**

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

Reactions with alkaline and oxidizing substances.

## 10.4 Conditions to avoid

No relevant information available.

## 10.5 Incompatible materials

No relevant information available.

## 10.6 Hazardous decomposition products

No relevant information available.

## 11 Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

ATE(mix) oral > 70000 mg/kg

ATE(mix) inhal. > 500 mg/L

#### Skin corrosion/irritation

May cause irritation of skin and mucous membranes.

#### Serious eye damage/eye irritation

No relevant information available.

#### Respiratory or skin sensitization.

Gentamicin sulfate (< 0,01%) is classified as a respiratory sensitizer.

#### Germ cell mutagenicity

No component is classified as a mutagenic toxicant.

#### Carcinogenicity

No component is classified as a carcinogenic toxicant.

#### Reproductive toxicity

No component is classified as a reproductive toxicant.

#### Specific target organ toxicity – single exposure

4-Dimethylaminoantipyrine (< 0,02%) may cause respiratory irritation.

#### Specific target organ toxicity – repeated exposure

No component is classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

No component is classified as an aspiration hazard.

## 12 Ecological information

### 12.1 Toxicity

No relevant information available.

### 12.2 Persistence and degradability

No relevant information available.



## 16 Other information

The above information is based on our present-day knowledge. It does not represent any guarantee of the properties of the product, not guarantee specific properties of the product and shall not establish a legally valid contractual relationship.

### 17 Changes to Version 4.2 (from 31.05.2017)

Concentrations of hazardous components are now given as “<” (less than) rather than “~” (approximately).  
EDTA concentration is <0,06%.

#### Changes to Version 4.1 (from 01.03.2017)

The Lot-Number of Strep-Tactin HRP conjugate as a kit component has been added.

#### Changes to Version 4.0 (from 01.11.2015)

The choice of kits of which this buffer is a component has been updated.