

Material Safety Data Sheet

acc. to ISO/DIS 11014

Last date of revision: January 05
Version 1

1. Product and Company Information

Product Name	Strep-Tactin horse radish peroxidase conjugate
Product Number	2-1502-001 Component of following Kits: Strep-tag HRP Detection Kit: 2-1502-000 Strep-tag Starter Kit: 2-1101-000 Strep-tag Starter Kit 3C: 2-1102-000 Strep-tag Starter Kit Cartridge: 2-1103-000 up to 2-1106-000 Strep/His Starter Kit: 2-1107-000
Company	IBA GmbH Rudolf-Wissell-Str. 28 37079 Goettingen Germany
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2. Composition / Information on Ingredients

These products contain proprietary ingredients that include general salts, buffer, and ingredients at low concentrations.

Hazardous Ingredients (specific)	%	CAS #	LD ₅₀
Strep-Tactin* horse radish peroxidase conjugate	0.1	None	NA
Aminoantipyrin	0.02	83-07-8	oral rat: 1700 mg/kg intraperitoneal rat: 1200 mg/kg oral mouse: 800 mg/kg
ANSA-Ammonium salt	0.02	90-30-2	oral rat: 1625 mg/kg oral mouse: 1450 mg/kg
Gentamycin Sulfate	less than 0.01	1405-41-0	oral rat: 5000 mg/kg intramuscular rat: 384 mg/kg oral mouse: 11269 mg/kg
Thimerosal	less than 0.01	54-64-8	oral rat: 98 mg/kg oral mouse: 91 mg/kg
Bovine Serum Albumin** (BSA)	0.5	None	NA
NaCl	0.8	7647-14-5	oral rat: 3000 mg/kg oral mouse: 4000 mg/kg
Na ₂ HPO ₄ x 2H ₂ O	0.13	7558-79-4	NA
KH ₂ PO ₄	0.02	7778-77-0	NA
Water (pH 7.4)	Rest		

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* Strep-Tactin is a mutein of streptavidin and Strep-Tactin Sepharose does not contain any toxic or hazardous compounds. Horseradish peroxidase conjugate it self and its products of degradation are not toxic.

However, the chemical, physical, and toxicological properties of the *Strep-Tactin* horse radish peroxidase conjugate may not, as yet, have been thoroughly investigated. Therefore, we recommend the use of gloves, lab coats, and eye protection when working with these or any chemical reagents. IBA GmbH assumes no liability for damage resulting from handling or contact with these products.

** Bovin Serum Albumin is Bovine serum albumin is an animal protein without additives.

3. Hazards Identification

Inhalation:	Do not breath vapour.
Ingestion:	Ingestion may cause gastrointestinal irritation.
Skin contact:	Substance may cause slight skin irritation. May be adsorbed through the skin in harmful amounts.
Eye contact:	Moderately irritating to the eyes.
Sensitization:	None.

4. First Aid Measures

General information:	No special measures required.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Immediately wash with water and soap and rinse thoroughly. If skin irritation persists, call a physican.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:	Call for a doctor immediately. Do not induce vomiting without medical advice.
After ingestion:	Induce vomiting and call for medical help.

5. Fire Fighting Measures

Not flammable. Might emit toxic vapor under fire conditions.

6. Accidental Release Measures

Person-related safety precautions:	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.
Measures for cleaning/collecting:	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

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7. Handling and Storage

General protective and hygienic measures:	Keep away from foodstuffs and beverages. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
Protection of hands:	Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.
Skin and body protection:	Wear appropriate body protection to prevent skin contact.
Eye protection:	Wear appropriate eye protection to prevent eye contact.

8. Exposure Controls and Personal Protection

General protective and hygienic measures:	Keep away from foodstuffs and beverages. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
Protection of hands:	Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.
Skin and body protection:	Wear appropriate body protection to prevent skin contact.
Eye protection:	Wear appropriate eye protection to prevent eye contact.

9. Physical and Chemical Properties

Appearance	Physical State: Liquid
Property	Value
pH	7.4
BP/BP Range	N/A
MP/MP Range	N/A
Flash Point	N/A
Flammability	Not flammable
Auto-ignition Temp	Not self-igniting
Oxidizing Properties	N/A
Explosive Properties	Not explosive
Explosion Limits	N/A
Vapor Pressure	N/A
SG/Density	N/A
Partition Coefficient	N/A
Viscosity	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
Evaporation Rate	N/A
Bulk Density	N/A
Decomposition Temp.	N/A
Solvent Content	N/A
Water Content	N/A
Surface Tension	N/A

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Conductivity	N/A
Miscellaneous Data	N/A
Solubility	complete

10. Stability and Reactivity

Stability:	Stable under recommended storage conditions.
Polymerization:	None under normal processing.
Hazardous decomposition products:	No decomposition if used according to specifications.

11. Toxicological Information

Mutagenic effects:	No data available.
Inhalation:	Harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
On the skin:	Skin Contact: May causes skin irritation. May be harmful if absorbed through the skin.
Ingestion:	May be harmful if swallowed.
On the eye:	May cause eye irritation.
Sensitization:	No data available.
Additional toxicological Information:	When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The concentration of Thimerosal in this product is well below the TLV-TWA of 0.1 mg(Hg)/m³
 TLV-TWA: Threshold Limit Value / Time Weighted Average; The average concentration under which most people can work consistently for eight hours, day in, day out, with no harmful effects. Gas or vapors are expressed in Parts Per Million (ppm), while solids, mist or floating dust particles are expressed in Milligrams Per Cubic Meter (mg/m³).

12. Ecological Information.

Not applicable.

13. Disposal Considerations

Dispose in accordance with applicable laws.

14. Transport Information

RID/ADR: Non-hazardous for road transport.
 IMDG: Non-hazardous for sea transport.
 IATA: Non-hazardous for air transport.

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15. Regulations

No known healthy hazards in this concentration. Therefore the preparation is not to be classified according to EEC directive 88/379/EEC.

Special training:

No special training is anticipated, however, the worker should be well instructed for the execution of this task, have knowledge of this Safety Data Sheet and normal training in use of personal protective equipment.

16. Other Information

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. IBA GmbH 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 2004 IBA GmbH. License granted to make unlimited paper copies for internal use only.

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