

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Human Band 3 anion transport protein ELISA Kit

Catalog number: MBS7230564

Recommended use: The measurement of the protein level in biological samples, the components of this kit including reagents, calibrators are all well packaged for final use. This kit is designed to use in research purpose, not for use in diagnostic or therapeutic procedures.

Company: MyBioSource, Inc.
P.O.Box 153308
San Diego, CA 92195-3308 USA
Tel: 1.858.633.0165/Fax: 1.858.633.0166
Email: sales@mybiosource.com
Emergency: Call 911 in the USA
or Contact your local emergency.

2. HAZARDOUS INGREDIENTS:

Sulfuric Acid

A vial of stop solution 6ml containing 5% Sulfuric Acid

GHS Classification:

Corrosive to metals
Skin corrosion (Category 1A)
Serious eye damage (Category 1)
Acute aquatic toxicity (Category 3)

GHS Statements

Hazard statement(s):

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.H315 Causes skin irritation.
H318 Causes serious eye damage.H319 Causes serious eye irritation.
Precautionary statement(s):
P234 Keep only in original container.
P264 Wash skin thoroughly after handling.
P280 Wear eye protection face protection.
P280 Wear protective gloves.
P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
P332+ P313 If skin irritation occurs: Get medical advice/attention.
P337+ P313 If eye irritation persists: Get medical advice/attention..
P362 Take off contaminated clothing and wash before reuse.
P390 Absorb spillage to prevent material damage.
P406 Store in corrosive resistant stainless steel container with a resistant inner liner

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS: ANTIBODY COATED MICROTITER PLATE	CAS#	EINECS#	ICSC#	Amount	Hazard Classification; Hazard Phrases
Affinity Purified Rabbit Antibody	Not Listed	Not Listed	Not Established	<100ug	Not classified None
HAZARDOUS INGREDIENTS: STANDARDS: 6vials, 0.5ml/vial	CAS#	EINECS#	ICSC#	Amount	Hazard Classification; Hazard Phrases
Recombinant Protein	Not Listed	Not Listed	Not Established	<0.1%	Not classified None
Distilled Water	7732-18-5	231-791-2	Not Listed	>90%	Not classified None
Bovine Sesrum Albumine	Not Listed	Not Listed	Not Established	<0.1%	Not classified None
ProCline 300 Preservative	55965-84-9	Not Listed	613-167-00 05	<0.1%	Irritant Hazard Phrases: H302, H314, H317, H332; H410 Precaution Phrases: P273, P280, P305 + P351 + P338, P310, P501
HAZARDOUS INGREDIENTS: ENZYME CONJUGATE 6ml	CAS#	EINECS#	ICSC#	Amount	Hazard Classification; Hazard Phrases
HRP conjugate antigen	Not Listed	Not Listed	Not Established	<100ug	Not classified None
ProCline 300 Preservative	55965-84-9	Not Listed	613-167-00 05	<0.1%	Irritant Hazard Phrases: H302, H314, H317, H332; H410 Precaution Phrases: P273, P280, P305 + P351 + P338, P310, P501
Tris Hydrochloride	1185-53-1	214-684-5	Not Listed	<1.0%	Not classified None
HAZARDOUS INGREDIENTS: WASHER BUFFER 10ml	CAS#	EINECS#	ICSC#	Amount	Hazard Classification; Hazard Phrases

Distilled Water	7732-18-5	231-791-2	Not Listed	>85%	Not classified None
Tris Hydrochloride	1185-53-1	214-684-5	Not Listed	<8.0%	Not classified None
Sodium Chloride	7647-14-5	231-598-3	Not Listed	<9.0%	Not classified None
Triton X-100	9002-93-1	Not Listed	Not Listed	<1.0%	rritant, Harmful Hazard Phrases: H318, H302
HAZARDOUS INGREDIENTS: TMB SUBSTRATE SOLUTION	CAS#	EINECS#	ICSC#	Amount	Hazard Classification; Hazard Phrases
Destilled Water	7732-18-5	231-791-2	Not Listed	>95%	Not classified None
TMB	54827-17-7	259-364-6	Not Listed	<0,01%	Concentration is too low.
H2O2	7722-84-1	231-765-0	Not Listed	0.003%	Concentration is too low
HAZARDOUS INGREDIENTS: STOP SOLUTION 6ml	CAS#	EINECS#	ICSC#	Amount	Hazard Classification; Hazard Phrases
Distilled water	7732-18-5	231-791-2	Not Listed	95%	Not classified None
Sulfuric Acid	7664-93-9	231-639-5	0362	5%	Hazard Classification: Highly corrosive Hazard Phrases: H314, Precaution Phases: P280-P305, P351, P338
HAZARDOUS INGREDIENTS: BALANCE SOLUTION 6ml	CAS#	EINECS#	ICSC#	Amount	Hazard Classification; Hazard Phrases
Distilled water	7732-18-5	231-791-2	Not Listed	>95%	Not classified None
NP-40 Lysis Buffer	9016-45-9	Not Listed	Not Listed	1%	HS-No: 34021300900 Hazard Symbols: Xn, N (Harmful, Dangerous for the environment)

4. FIRST AID MEASURES

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move to fresh air.
Ingestion	Clean mouth with water. Drink plenty of water.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable properties	Not flammable.
Flash point	not determined
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<u>Explosion Data</u>	Not available
Sensitivity to Mechanical	None.
Sensitivity to Static Discharge	None.
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (Approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions	Try to prevent the material from entering drains or water courses.
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
Technical measures/Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits.		
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulphuric acid 7664-93-9	TWA: 0.2 mg/m ³ thoracic fraction	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³	IDLH: 15 mg/m ³ TWA: 1 mg/m ³
Exposure controls	Ensure good ventilation. Avoid, if possible, direct contact with the product. An emergency shower and/or an eye bath should be available in the workplace.		
Engineering measures	Showers Eyewash stations Ventilation systems		
Eye/face protection	Use chemical safety goggles where splashing is possible.		
Skin and body protection	Chemical resistant gloves (butyl rubber, PE or PVC) may be used if risk of direct contact may occur.		
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.		
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid.	Odor	Odourless.
Odor Threshold	No information available	Physical State @20°C	No information available
pH	No information available	Autoignition temperature	No information available
Flash point	No information available	Boiling point/boiling range	No information available
Decomposition temperature	No information available	Flammability Limits in Air	No information available
Melting point/range	No information available	solubility	No information available.
Explosion limits	No information available	Vapor density	no data available
Specific Gravity	no data available		
Evaporation rate	No information available		
VOC Content(%)	not applicable		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible products (Sulfuric Acid)	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.
Conditions to avoid	None known based on information supplied.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION (Sulfuric Acid)_

Acute toxicity	LD50 Oral, Rat, Dose 2140 mg/kg
Irritation	Eyes – Severe irritant, Rabbit, Exposure 250 Micrograms.
Sensitization	Eyes – Severe irritant, Rabbit, 0.5 minutes 5 milligrams.
Carcinogenicity	Not available
Repeated dose toxicity	Not available
Mutagenicity	Not available
Toxicity for reproduction	Not available
	Eye contact: Causes serious eye damage
Potential acute health effects	Inhalation: No known significant effects or critical hazards.
	Skin contact: Causes skin irritation.
	Ingestion: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Toxicity : Sulphuric acid 96%: LC50 (fish, 96h) 42 mg/L (mosquito fish) EC50 (daphnia, 48h) >29 mg/L

13. DISPOSAL CONSIDERATION

Waste Disposal:

These reagents contain no substances which at their given concentration are not the hazardous wastes according to Federal regulations (40CFR 261). There might be a plastic plate with rests of blood which can be allotted an EWC-code 18 01 03 Wastes from natural care, diagnosis, treatment on prevention of disease in humans, waste whose collection and disposal is subject to special requirements in view of prevention of infection.

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

Regulatory information ADR/RID / IMDG / IATA Not regulated

15. OTHER INFORMATION

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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