

Infectious Disease ELISA Tests

A. Stop Solution

Composition/ Ingredients Information

Chemical Characterisation Aqueous solution

Dangerous ingredients

Name according to EEC directive:

Sulfuric acid

Hazard symbols:	irritant	R-sentences: 35 Causes severe burns.
CAS No.:	7664-93-9	Content: 0.2 M

The classification and the risk warnings given in point 2, refer to the substances! The same information referring to the preparation is given in point 15.

3. Hazards identification

The preparation is harmful if swallowed, causes burns, irritant to eyes and skin.

4. First aid measures

Contact with skin:	wash with plenty of water.
Contact with eyes:	wash with plenty of water.
Ingestion:	give extensive water for drinking, call a physician if feeling unwell.
Inhalation:	move victim to fresh air. Call a physician.

5. Fire fighting measures

Extinguishing media:	the preparation does not burn Use extinguishing media appropriate for environment.
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Special risk:	no information for the preparation, noncombustible
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6. Accidental release measures

Absorb with liquid absorbing material. Forward to disposal. Clean affected area with plenty of water.

7. Handling and storage

Handling:	handle according to good industrial hygiene and safety practices for diagnostic products.
Storage:	RT

8. Exposure controls/personal protection

Personal protective equipment:	
Respiratory protection:	not required
Hand protection:	safety gloves
Skin protection:	lab coat
Eye protection:	safety glasses
Industrial hygiene:	change contaminated cloths. Wash hands after handling the preparation.

9. Physical and chemical properties of the preparation

Form:	liquid, clear
Colour:	none
Odour:	none
pH-Value:	1.0-2.0
Melting temperature:	not applicable

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Boiling temperature: no information available
Ignition temperature: not applicable
Density: no information available
Solubility in water: soluble

10. Stability and reactivity

Conditions to be avoided: none known
Substances to be avoided: oxidizing agents, reducing agents, amines, mercaptanes, azides
Hazardous decomposition products: sulfur oxides

11. Toxicological information

Expected properties due to components of the preparation.

Acute toxicity: quantitative data not available.

Further dangerous properties cannot be ruled out. The product must be handled with the usual care for chemicals.

12. Ecological information

Quantitative data about the ecological effect of the preparation are not available. Use the preparation according to GLP and avoid dispersion in the environment. An environmental risk cannot be excluded if handling and/or disposal is inadequate.

13. Disposal considerations

The waste produced from utilizing the preparation and the unused preparation should be disposed of according to the prevailing regulations and guidelines of the agencies holding jurisdiction over the laboratory, and the regulations of each Country.

The disposal of liquid effluents should be carried out according to the existing local laws and to the existing local regulation governing water pollution.

14. Transport information

No subject to transport regulations

15. Regulatory information

The preparation is classified and labelled according to EEC directives:

Symbol: irritant Xi

R-sentences: R 34 Causes burns

S-sentences: S 36/37/39-26-28 Wear suitable protective clothing, gloves and eye protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water.

16. Other information

This safety sheet has been drafted according to the directives issued by the council and the commission of the European communities.

The purpose of this safety sheet is to ensure correct and safe use, storage, shipment and disposal of the preparation. All included information is based on our knowledge of the preparation at the date of issue of this sheet. It does not represent a guarantee of the properties of the product.

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B. TMB Substrate

1 Identification of the substance/preparation and of the company

Product Name: **TMB SUBSTRATE**

2 Composition/Information on ingredients

% w/w	Chemical name	CAS no.	EINECS/ELINCS Classification	
< 0.05	TMB*	54827-17-7	259-364-6	Xn;R22 N;R51/53
> 94	Water	7732-18-5	231-791-2	-

*3,3',5,5'-Tetramethylbenzidine. The concentration is so low, that it does not affect the classification of the product. Wording of R-phrases - see section 16.

Hazards Identification

Particular information pertaining specific risk for human and environment

The health risk is low - see section 15.

4 First-aid measures

Eye contact

Flush thoroughly with water or physiological salt water. Remember to remove contact lenses. If irritation persists: seek medical advice.

Skin contact

Remove contaminated clothing and wash with water and soap.

Inhalation

Go to fresh air. Keep at rest. If person feels queasy/discomfort: seek medical advice.

Ingestion

Rinse mouth and drink plenty water. Keep under surveillance. If person feels queasy/discomfort: seek medical advice.

Information

Show this Safety Data Sheet to a physician or emergency ward.

5. Fire-fighting measures

Flammability

Not combustible; aqueous solution.

Extinguishing media - suitable

Use suitable extinguishing media for surrounding fire.

Extinguishing media - NOT suitable –

Special risks in a fire situation

When heated to dryness the product may form hazardous decomposition products.

Protective equipment

When extinguishing fires use breathing apparatus with an independent source of air.

Additional information –

6. Accidental release measures

Personal precautions

Provide for sufficient ventilation/respiratory protection.
See protective equipment listed in section 8.

Environmental precautions

Avoid empty into drains. If large amounts of the product contaminates sewages, inform appropriate authorities in accordance with local regulations.

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Methods for cleaning up/collecting

Absorb spilled liquid and place spillage in a plastic container

7. Handling and storage

Safe handling See section 8.

Safe storage At 4°C. Keep container closed when not in use.

Specific use(s): See section 1.

8. Exposure controls and personal protection

Engineering measures (prevention of worker exposure)

Avoid contact with skin and eyes.

Personal protective equipment

Eye protection: Wear safety goggles when risk of splashes.

Skin protection: Use gloves of plastic or rubber when risk of contact.

Breakthrough time: 3 hours.

Respiratory protection: None.

Environmental exposure controls: -

9. Physical and chemical properties

Appearance: Liquid

Odour: -

Boiling point (°C): about 100

Flash point (°C): -

Density (g/ml) at 20°C: about 1

Solubility in water: Miscible

10. Stability and reactivity

Stability -

Conditions to avoid -

Materials to avoid -

Hazardous decomposition products:

When heated to dryness the product may form hazardous decomposition products.

11. Toxicological information

Routes of exposure May be absorbed through ingestion

Acute toxicity: -

Eyes: May give irritation

Skin: May give irritation

Inhalation Inhalation is not possible when used as recommended.

Ingestion: May give irritation of the gastrointestinal tract.

Long term toxicity: TMB has shown a possible mutagenic effect in experimental animals (mice).

12. Ecological information

Ecotoxicity:

TMB is toxic to aquatic organisms. Effect values (EC₅₀): 1 - 10 mg/l.

Mobility:

Miscible with water.

Persistence and degradability:

TMB is not readily biodegradable. May cause long-term adverse effects in the aquatic environment.

Bioaccumulative potential:

Log_{KOW} of TMB is 4.11 (is expected to accumulate)

Other adverse effects:

Avoid empty into waters or drains.

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13. Disposal considerations

Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company. **EWG-code:** 16 05 08

14. Transport information

Road/Rail (ADR/RID)

Class -

UN No.: -

Proper Shipping Name : -

15. Regulatory information

Classification according to EEC directives

ALTox a/s has the 23rd of October 2003 evaluated, that the preparation is not to be classified according to EEC directive 88/379/EEC.

This Safety Data Sheet is intended as a service to customers/users of this product.

Danger symbol and danger designation: None.

Risk-phrases: -

Safety-phrases: -

EINECS no.: -

16. Other information

R-phrases mentioned in section 2:

R 22: Harmful if swallowed.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Restriction on application

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Requirements concerning special training

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

C. Conjugate, Controls, Sample Diluent and IgM Prep (IgM kits)

Composition/ Ingredients Information

Chemical Characterisation Aqueous solutions

Dangerous ingredients

Name according to EEC directive:

Sodium ethylmercurithiosalicylate (Thimerosal)

Hazard symbols: Toxic T

R-sentenses: 23/24/25-36/37/38-42/43-40

Toxic by inhalation, in contact with skin and if swallowed. Irritant to eyes, respiratory organs and skin. May cause sensitization by inhalation and skin contact. Possible risks of irreversible effects.

CAS No.: 7664-93-9

Content: <0.01% (w/v)

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3. Hazards identification

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Ingestion: give extensive water for drinking, call a physician if feeling unwell.
Inhalation: move victim to fresh air. Call a physician.

5. Fire fighting measures

Extinguishing media: the preparation does not burn
Use extinguishing media appropriate for environment.

Special risk: no information for the preparation, noncombustible

6. Accidental release measures

Absorb with liquid absorbing material. Forward to disposal. Clean affected area with plenty of water.

7. Handling and storage

Handling: handle according to good industrial hygiene and safety practices for diagnostic products.
Storage: RT

8. Exposure controls/personal protection

Personal protective equipment:
Respiratory protection: not required
Hand protection: safety gloves
Skin protection: lab coat
Eye protection: safety glasses
Industrial hygiene: change contaminated cloths. Wash hands after handling the preparation.

9. Physical and chemical properties of the preparation

Form: liquid, clear
Colour: none (Sample Diluent blue)
Odour: none
pH-Value: 7.2 +/- 0.2
Melting temperature: not applicable

Boiling temperature: no information available
Ignition temperature: not applicable
Density: no information available
Solubility in water: soluble

10. Stability and reactivity

Conditions to be avoided: none known
Substances to be avoided: oxidizing agents, reducing agents, amines, mercaptanes, azides
Hazardous decomposition products: sulfur oxides

11. Toxicological information

Expected properties due to components of the preparation.
Thimerosal: systemic effects
After contact with preparation: danger of resorption through skin.

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Acute toxicity: quantitative data not available.

Further dangerous properties cannot be ruled out. The product must be handled with the usual care for chemicals.

12. Ecological information

Quantitative data about the ecological effect of the preparation are not available. Use the preparation according to GLP and avoid dispersion in the environment. An environmental risk cannot be excluded if handling and/or disposal is inadequate.

13. Disposal considerations

The waste produced from utilizing the preparation and the unused preparation should be disposed of according to the prevailing regulations and guidelines of the agencies holding jurisdiction over the laboratory, and the regulations of each Country. The disposal of liquid effluents should be carried out according to the existing local laws and to the existing local regulation governing water pollution.

14. Transport information

Not subject to transport regulations

15. Regulatory information

The preparation is classified and labelled according to EEC directives:

Symbol:	none
R-sentences:	none
S-sentences:	none

16. Other information

This safety sheet has been drafted according to the directives issued by the council and the commission of the european communities.

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