



ARGUTUS MEDICAL
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MATERIALS SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING:

Product Name: GST Yb1 EIA

Cat No. BIO76Yb1

USE: GST Yb1 EIA provides a method for the quantitative determination of rat Mu Glutathione S-Transferase (μ GST) in urine.

Company:

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2. COMPOSITION / INFORMATION ON INGREDIENTS:

<u>Reagent</u>	<u>Content</u>
<u>Coated Strips:</u>	12 x 8 well strips coated with IgG directed against μ GST.
<u>Conjugate Concentrate:</u>	12mL anti rat GST Yb1 IgG conjugated to horseradish peroxidase. Contains Thiomersal.
<u>GST Calibrator:</u>	200 μ L of purified rat GST. Contains Thiomersal and Sodium Azide.
<u>Positive Control:</u>	500 μ L of GSTYb1. Contains Thiomersal and Sodium Azide.
<u>Sample Diluent:</u>	55mL of ready to use diluent. Contains Thiomersal and Sodium Azide.
<u>Rat Urine Stabilising Buffer:</u>	10mL of stabilising buffer. Contains Thiomersal and Sodium Azide.
<u>Wash Concentrate:</u>	55mL of a concentrated buffer (25X). Contains Thiomersal and 6% Trizma Base
<u>Substrate:</u>	11mL of Tetramethylbenzidine (TMB) solution
<u>Stop Solution:</u>	11mL of 0.5M Sulphuric Acid (H₂SO₄) (4.9%w/w)

**** Potentially Biohazardous Material**



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HAZARDS IDENTIFICATION:

Thiomersal is toxic by inhalation, in contact with skin and if swallowed. Is irritating to eyes, respiratory system and skin. It is a possible mutagen which may affect kidneys and nerves.

Sodium Azide is an irritant. Avoid contact with components containing azide. Do not ingest or inhale. Harmful if swallowed. Contact with acids liberates very toxic gas.

Sulphuric acid is corrosive. Avoid contact with the skin and eyes. If contact occurs rinse immediately with water and seek medical advice.

TMB (3,3',5,5' – tetramethylbenzidine) may irritate the skin and mucous membranes. Any substrate that comes in contact with the skin should be rinsed off with water.

3. FIRST AID MEASURES: Applicable for all kit components

Inhalation: If exposure is severe remove to fresh air

Skin: Wash skin with copious amounts of water.

Eye: Flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids. If any irritation persists, obtain medical assistance.

Ingestion: Wash out mouth with copious amounts of water. Give plenty of water to drink. Obtain medical attention if large quantity is ingested.

4. FIRE FIGHTING MEASURES:

Precautions during fire: Avoid inhalation of fumes

Suitable extinguishing media: Dry chemical powder. Do not use water on sodium azide containing components.

Special exposure hazards: Some components may decompose and emit toxic fumes under fire conditions (Sodium Azide, TMB, Thiomersal).

Special Fire Fighting procedures: Self-contained breathing apparatus may be required if heavy fumes are emitted. It is advisable for protective clothing to be worn to prevent contact with skin and eyes.



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5. ACCIDENTAL RELEASE MEASURES:

Environmental precautions: The Positive Control contains sodium azide which may form potentially explosive metal azides with lead and copper plumbing. For disposal, reagent should be flushed with large volumes of water to prevent azide build up.

Methods for cleaning up: Wipe up spills with absorbent paper, then clean area with a concentrated chlorine solution, 0.5% (for example 0.5% hypochlorite). Discard all materials used to wipe up spills using biohazard waste facilities.

6. HANDLING AND STORAGE:

Handling: All clinical specimens, calibrator and positive control and any infected or potentially infected material should be handled as though potentially infectious.

Storage: Store all reagents and ELISA plate at 2-8°C

Specific use: For laboratory research use only.

7. Exposure controls/personal protection:

The calibrator, positive control and all patient specimens are considered potentially biohazardous materials. They should be handled at the Biosafety Level 2 as recommended for any potentially infectious human serum or blood specimen in the CDC/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 1998.

Inhalation: Use with adequate ventilation. Avoid inhalation

Eye Contact: Wear goggles or safety glasses

Skin Contact: Wear impermeable gloves and appropriate lab apparel.

Some of the reagents in this kit contain toxic or irritant components (Refer to section 3). Wear protective clothing, disposable latex gloves and eye protection while handling specimens and performing the assay. Wash hands thoroughly when finished.

8. PHYSICAL AND CHEMICAL PROPERTIES:

Not Applicable

9. STABILITY AND REACTIVITY:

The stop solution (0.5M H₂SO₄) is incompatible with water and bases.

The Positive Control, Calibrator, Sample Diluents and Rat Urine Stabilising Buffer contain Sodium Azide which may form potentially explosive metal azides with lead and copper plumbing. Sodium azide explodes when heated and may form hazardous combustion or decomposition products.



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Substrate (TMB solution) is incompatible with strong oxidizing agents.

Thiomersal is incompatible with strong oxidising agents, strong acids and strong bases.

10. TOXICOLOGICAL INFORMATION:

Some reagents contain Thiomersal and/or Sodium Azide both of which are toxic by inhalation, in contact with skin and if swallowed. TMB has shown a possible mutagenic effect in experimental animals. Material may be irritating to the respiratory system.

11. ECOLOGICAL INFORMATION:

TMB is toxic to aquatic organisms, miscible with water, may cause long term adverse effects in the aquatic environment. Avoid emptying into waters or drains. H_2SO_4 is harmful to aquatic life in very low concentrations. It may be dangerous if it enters water intakes. Thiomersal is highly toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Do not allow to enter waters, waste water or soil.

12. DISPOSAL Guidelines

Dispose of all clinical specimens, infected or potentially infected material in accordance with good laboratory practice. All such materials should be handled and disposed of as if potentially infectious. Chemical residues are generally classified as special waste, and such are covered by regulations which vary according to location. Contact your local waste authority for advice, or pass to a registered chemical disposal company. Observe all local, state and federal regulations.

13. TRANSPORT INFORMATION:

This manufactured product is not subject to International Air Transport Association Dangerous Goods Regulations.

14. REGULATORY INFORMATION AND CONSIDERATIONS:

European Union Directive 67/548/EEC;
European Union Directive 1999/45/EC;
EU Regulation 1907/2006
Products are manufactured using GMP

15. OTHER INFORMATION:

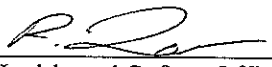
Training: This product should only be handled by individuals technically qualified in handling potentially biohazardous material. The contents of this MSDS should be known before use.



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Restrictions on Use: The product is for laboratory research use only.

Approved: 
Health and Safety Officer

Date: 31/03/09

Approved: 
Senior Management Team Member

Date: 31/03/09