



ARGUTUS MEDICAL
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MATERIALS SAFETY DATA SHEET

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

Product Name: Renal Papillary Antigen-1 (RPA-1) EIA **Cat No.** BIO89RPA1

USE: An enzyme immunoassay for the quantitative estimation of RPA -1 in rat urine. For research use only. Not for use in diagnostic procedures.

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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 RPA-1.
<u>Conjugate Concentrate:</u>	300 µL (50X) anti-RPA-1 HRP-IgG conjugate. Contains 2% Antibody Stabiliser.
<u>Conjugate Diluent:</u>	11 mL of conjugate dilution buffer. Contains Trizma Base, Protein Stabiliser, ProClin 950, Triton X100.
<u>Calibrator *:</u>	500 µL of partially purified rat RPA-1. Contains ProClin 950, Bronidox L.
<u>Positive Control *:</u>	100 µL of partially purified rat RPA-1. Contains ProClin 950, Bronidox L.
<u>Rat Urine Stabilising Buffer:</u>	10 mL of stabilising buffer. Contains Protein Stabiliser, Sodium Azide, Thiomersal.
<u>Wash Concentrate:</u>	55 mL of a concentrated buffer (25X). Contains 6% Trizma Base, ProClin 950.
<u>Sample Diluent:</u>	50 mL of ready to use diluent. Contains 1% Triton X100, Igepal CA-630, ProClin 950.
<u>Substrate:</u>	11 mL of Tetramethylbenzidine (TMB) solution.
<u>Stop Solution:</u>	11 mL of 0.5M Sulphuric Acid (4.9% w/w) H ₂ SO ₄ .

*** Potentially Biohazardous Material**



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NOTE: All concentrations of harmful/irritant/corrosive/sensitising substances are at \leq 1.0% w/w and all concentrations of toxic/carcinogenic/mutagenic substances are at \leq 0.1% w/w in preparations unless otherwise stated.

3. HAZARDS IDENTIFICATION

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 eyes, skin and mucous membranes. It is a possible mutagen. Any substrate that comes in contact with the skin should be rinsed off with water.

Trizma Base is an irritant. Irritating to eyes, respiratory system and skin. Remove contaminated clothing and shoes.

Bronidox L is harmful if swallowed and irritating to skin.

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

ProClin 950 causes burns and sensitisation by skin contact.

Igepal CA-630 is harmful if swallowed and cause serious damage to eyes.

Triton X100 is harmful. Risk of serious damage to eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

4. FIRST AID PROCEDURES

Inhalation: If exposure is severe remove to fresh air.

Skin Contact: Wash skin with copious amounts of water.

Eye Contact: 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.



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5. FIRE FIGHTING MEASURES

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Some components may decompose and emit toxic fumes under fire conditions (Sodium Azide, Trizma base, TMB, Thiomersal, Bronidox L, Proclin 950, Igepal CA-630).

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Urine Stabilising Buffer contains Sodium Azide, which may form potentially explosive metal azides with lead and copper plumbing. For disposal, the reagent should be flushed with large volumes of water to prevent Azide build up. The Antibody Stabiliser in the Conjugate Concentrate is toxic to aquatic organisms. Do not empty in the drains undiluted.

Methods for cleaning up: Wipe up spills with absorbent paper, clean area with a concentrated chlorine solution and copious amounts of water. Discard all materials used to wipe up spills using biohazard waste facilities. Avoid contact with skin and clothing.

7. EXPOSURE CONTROL / PERSONAL PROTECTION

The calibrator/positive control and all rat urine specimens are considered potentially biohazardous materials.

Inhalation: Use with adequate ventilation. Avoid inhalation.

Eye Contact: Wear goggles or safety glasses.

Skin Contact: Wear impermeable gloves and appropriate lab apparel.

8. HANDLING AND STORAGE

Handling: All rat urine specimens and calibrator/positive control material should be handled as though potentially biohazardous. With components do not breath in vapours and do not get in eyes, on skin, on clothing.

Specific Use: For research use only. Not for use in diagnostic procedures.

Storage: Store all reagents and ELISA plates at 2-8°C.
Positive Control and Calibrator store at -20°C

9. PHYSICAL AND CHEMICAL PROPERTIES

Not Applicable.



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10. STABILITY AND REACTIVITY

Stop Solution (0.5M H₂SO₄) is incompatible with water and bases. Urine Stabilising Buffer contains Sodium Azide, which may form potentially explosive metal Azide with lead and copper plumbing. Sodium Azide explodes when heated and may form hazardous combustion or decomposition products.

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

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

Bronidox L is incompatible with strong oxidising agents.

Proclin 950 is incompatible with strong oxidising agents, Amines, Mercaptans and Reducing agents.

Igepal CA-630 is incompatible with strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

One reagent contains Sodium Azide, which is toxic by inhalation, in contact with skin and/or if swallowed. Proclin 950 may cause allergic skin reaction and is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Thiomersal may be fatal if inhaled / swallowed. TMB (long term toxicity) has show a possible mutagenic effect in experimental animals. Igepal CA-630 causes severe eye irritation. Material may be irritating to the respiratory system.

12. 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. H₂SO₄ 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.

13. DISPOSAL GUIDELINES

Observe all Federal, State and Local laws concerning health, disposal and pollution. Dispose of all specimens and components according to established safety procedures.

14. TRANSPORT INFORMATION

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




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15. 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.

16. OTHER

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. Observe precautionary statement provided.

Approved: 
Health and Safety Officer

Date: 31/03/09

Approved: 
Senior Management Team Member

Date: 31/03/09