

**Material Safety Data Sheet
Matched Pair Antibody Sets for ELISA**

Last Revision On 10/2011



Product Name: Prothrombin EIA, Factor V EIA, Factor VII EIA, Factor IX EIA, Factor X EIA, Factor XI EIA, Factor XII EIA, Factor XIII EIA, von Willebrand Factor EIA, Protein C EIA, Protein S EIA, APC-Protein C Inhibitor Complex EIA, APC-1 Antitrypsin Complex EIA, Protein C Inhibitor EIA, Heparin Cofactor II EIA, Antithrombin III EIA, Thrombin-HCII Complex EIA, Plasminogen EIA, Tissue Plasminogen Activator EIA, Fibrinogen EIA, TAFI EIA, Apolipoprotein-H EIA, Rabbit Fibrinogen EIA, Alpha 1 Antitrypsin EIA, Canine Factor IX EIA, Murine Fibrinogen EIA, Murine Antithrombin EIA, Murine Plasminogen EIA, Murine Factor X EIA, Kininogen EIA, Prekallikrein EIA

""	""	""	""	""	""	""	""	""
""	""	""	""	""	""	""	""	""
""	""	""	""	""	""	""	""	""

Product Use: For research use only

Hazardous Ingredients

Hazardous Ingredient: Detecting antibody diluents (Proprietary formulation)

Hazards Identification: The hazards identified with this product are those associated with the diluent in the Detecting Antibody. Though complete toxicity information is not available, none of its components are known to be toxic or hazardous at use concentrations. Product is an aqueous, protein-containing mixture which contains the mercury-free preservatives methylisothiazolone (0.01%) and bromonitrodioxane (0.01%) and 10ppm Proclin 300, which can produce adverse health effects in their concentrated forms. For more specific toxicity information on these components, refer to MSDSs available from Sigma-Aldrich.

CAS Registry Number: Not applicable
LD₅₀ (species and route): Not available
LC₅₀ (species and route): Not available

Hazards Identification

Non-hazardous liquid. This product is non-flammable. May cause eye irritation (mild to severe) in some individuals. Potential environmental effects are not available.

First Aid Measures

Eye Contact: Flush thoroughly with water or normal saline, lifting the upper and lower lids occasionally, until no evidence of chemical remains (~15 minutes). Seek medical advice if irritation develops.

Skin Contact: Remove contaminated clothing and wash with water and soap. No adverse acute effects are expected via this route of entry.

Inhalation: No special first aid measures necessary; inhalation or aspiration unlikely.

Ingestion: No data on ingestion of the material is available. Extremely large oral doses may cause gastrointestinal disturbance. If swallowed, contact medical staff or poison control to determine if any immediate response or follow-up actions are recommended.

Fire or Explosion Data

Conditions of flammability: Non-flammable

Means of extinction – suitable: Use extinguishing media appropriate for surrounding fire conditions.

Means of extinction – not suitable: Not available

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

Upper flammable limit: Not available

Lower flammable limit: Not available

Flash point and method of determination: Not available

Auto-ignition temperature: Not available

Hazardous combustion products: Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides.

Explosion data-sensitivity to mechanical impact: Not available

Explosion data-sensitivity to static charge: Not available

Special risks in a fire situation: None

Accidental Release Measures

Personal Precautions: Wear suitable laboratory protective clothing.

Waste Disposal: Do not contaminate soil, groundwater, or surface water. Observe all federal, state and local laws when considering waste disposal method.

Procedure to be followed in case of leak or spill: Wear protective equipment. Absorb spill with inert material and then place in a disposal container. Wash area thoroughly with soap and water.

Handling and Storage

Handling Procedures and Equipment: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Safety shower and eyewash station near location of use.

Storage Requirements: Store at 2-8C or -10 to -20C (Check product label).

Exposure Controls and Personal Protection

Specific engineering controls to be used: Not applicable (not respirable as a liquid)

Personal protective equipment to be used:

Eye: Wear safety goggles when risk of splashes.

Skin: Wear lab coat and gloves of plastic or rubber when risk of contact.

Respiratory: None

Physical and Chemical Properties

Physical State: Liquid

Odour & Appearance: Odourless, clear, amber-coloured liquid

Odour Threshold: Not available

Specific Gravity: Not available

Vapour Pressure: Not available

Vapour Density: Not available

Evaporation Rate: Not available

Boiling Point: 100C

Freezing Point: Not available

pH: 6.2-6.7

Coefficient of water/oil distribution: Not available

Density (g/ml) at 20C: Not available

Solubility in Water: Complete

Reactivity Data

Conditions under which the product is chemically unstable: Product is stable at normal temperatures and storage conditions.

Incompatibilities: None known

Conditions of Reactivity: None known

Hazardous Decomposition Products: Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous Polymerization: Will not occur

Toxicological Properties

Route of Entry: May be absorbed through ingestion.

Effects of acute exposure to product:

Eye: May give irritation

Skin: Not available

Inhalation: Inhalation is not possible when used as recommended.

Ingestion: Not available

Effects of chronic exposure to product: Not available

Exposure Limits: Not available

Irritancy of Product: See above

Sensitization to Product: Not available

Carcinogenicity: Not available

Reproductive Toxicity: Not available

Teratogenicity: Not available

Mutagenicity: Not available

Name of toxicologically synergistic products: Not available

Ecological Information

Data is not available.

Disposal Considerations

Waste Disposal: Do not contaminate soil, groundwater, or surface water. Disposal should be according to local, state or national legislation.

Transport Information

Special Shipping Information: None required (non-regulated and non-hazardous for transport)

Regulatory Information

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.