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 Phone (574) 288-2268 Fax (574) 288-2272

**Safety Data Sheet**  
**Matched Pair Antibody Sets for ELISA**  
 Last Revision on 10/2019

**Product and Company Information**

**Supplier:** Enzyme Research Laboratories, Inc.  
 1801 Commerce Drive  
 South Bend, IN 46628  
 Phone: (574) 288-2268 or (800) 729-5270 (in U.S. and Canada)  
 Fax: (574) 288-2272

**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-alpha1Antitrypsin Complex EIA, Antithrombin III EIA, Plasminogen EIA, Tissue Plasminogen Activator EIA, Fibrinogen EIA, Apolipoprotein-H EIA, Alpha 1Antitrypsin EIA, Canine Factor IX EIA, Murine Fibrinogen EIA, Prekallikrein EIA

**Catalog Number:** FII-EIA, FV-EIA, FVII-EIA, FIX-EIA, FX-EIA, FXI-EIA, FXII- EIA, FXIII-EIA, VWF-EIA, PC-EIA, PS-EIA, APCAT-EIA, ATIII-EIA, PG-EIA, TPA-EIA, FG-EIA, APOH-EIA, A1AT-EIA, CFIX-EIA, MFG-EIA, PK-EIA

**Product Use:** For research use only

**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.

**Composition/Information on 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 SDSs available from Sigma-Aldrich.

**CAS Registry Number:** Not applicable

**LD<sub>50</sub> (species and route):** Not available

**LC<sub>50</sub> (species and route):** 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.

### Firefighting Measures

**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 / 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:** Neutral

**Coefficient of water/oil distribution:** Not available

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

**Solubility in Water:** Complete

### Stability and Reactivity

**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 SDS contains all the information required by the *Controlled Products Regulations*.

**Other Information**

Enzyme Research Laboratories, Inc. believes the above information to be correct but does not purport to be all inclusive and should be used as a guide. Enzyme Research Laboratories, Inc. shall not be held liable for any damage resulting from the handling or contact with the above product.