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**1. IDENTIFICATION**

**Product Identification**

Product Name **COVID-19 Human IgG ELISA Kit**  
Catalog Number **IEQ-CoVS1RBS-IgG-DBS**

**Usage**

This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.

**Supplier Identification**

Company **RayBiotech, Inc.**  
**3607 Parkway Lane, Suite 100**  
**Norcross, GA 30092**  
**USA**

Telephone **1-888-494-8555 (Toll Free); 770-729-2992**  
Fax **770-206-2393**  
Website **[www.RayBiotech.com](http://www.RayBiotech.com)**  
Email **[info@raybiotech.com](mailto:info@raybiotech.com)**

**Emergency Telephone Number**

Emergency Phone # **1-888-494-8555**

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**2. HAZARDS IDENTIFICATION**

**Hazardous Ingredients**

1. The Protease Inhibitor Cocktail Set I contains AEBSF, Leupeptin, and Ethylenediaminetetraacetic acid (EDTA).
2. The Stop Solution contains Sulfuric Acid.

**OSHA/HCS status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture**

AEBSF (protease inhibitor set I): Acute Toxicity

Leupeptin (protease inhibitor set I): Acute Toxicity

Ethylenediaminetetraacetic acid (EDTA) (protease inhibitor set I): Serious eye irritation

Sulfuric Acid (Stop Solution): Skin Corr./Irrit. 1A (H314)

**GHS Label Elements**

Hazard Pictograms



Signal Word/s

Warning

Hazard Statements	<p>AEBSF (protease inhibitor set I): Harmful if swallowed; Irritating to eyes and skin.</p> <p>Leupeptin (protease inhibitor set I): Harmful if swallowed or inhaled; Irritating to eyes and skin.</p> <p>Ethylenediaminetetraacetic acid (EDTA) (protease inhibitor set I): Harmful if swallowed or inhaled; Irritating to eyes.</p> <p>Sulfuric Acid (Stop Solution): Causes skin irritation (H315); Causes serious eye irritation (H319)</p>
Response	<p>IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.</p> <p>EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>SKIN CONTACT: Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>INHALATION: Move to an outside area and breath fresh air. Clear the nose by blowing.</p>
Storage	Not applicable.
Disposal	Not applicable.
<b>Hazards not otherwise classified</b>	
None known.	

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### CAS Numbers/other identifiers

<u>Ingredient Name</u>	<u>%</u>	<u>CAS Number</u>
AEBSF	1-3	30827-99-7
Leupeptin	1-5	103476-89-7
Ethylenediaminetetraacetic acid (EDTA)	0.1-1	60-00-4
Sulfuric Acid	0.2	7664-93-9

### 4. FIRST-AID MEASURES

#### Description of Necessary First Aid Measures



For Non-Emergency Personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For Emergency Responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel" above.
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Protective Equipment	Wear respirator, chemical safety goggles, rubber boots and rubber gloves.

### Methods and Materials for Containment and Cleaning Up

Small Spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large Spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. STORAGE AND HANDLING

### Storage

Store the entire kit frozen at -20°C upon arrival.

### Handling

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Permissible Exposure Limits (PELs)

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate Engineering Controls

Showers  
Eyewash stations  
Ventilation systems

### Protective Equipment

Wear suitable protective clothing, including gloves, safety glasses, dust mask, and a laboratory coat.

### Special Precautions

Not for human or drug use. Not for household use.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless
Odor	Odorless
Physical State	Liquid
pH	N/A
Boiling Point	N/A
Melting Point	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Specific Gravity	N/A
Evaporation Rate	N/A
Solubility in Water	N/A
Odor Threshold	N/A
Coefficient of Water/Oil Distribution	N/A

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## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal handling procedures.
Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Ingredient Name	Result	Species	Dose
Ethylenediaminetetraacetic acid (EDTA)	LD50	Oral rat	4,500 mg/kg
Sulfuric Acid	LD50	Oral rat Inhalation rat	347 ppm 2140 mg/kg

<b>Carcinogenicity</b>	Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65
<b>Sensitization</b>	Not Available
<b>Mutagenicity</b>	Not available
<b>Reproductive Toxicity</b>	Not Available
<b>Specific target organotoxicity (single exposure)</b>	Not available
<b>Specific target organotoxicity (repeated exposure)</b>	Not available
<b>Aspiration hazard</b>	Not available
<b>Likely routes of exposure</b>	Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

<b>Eye contact</b>	AEBSF (protease inhibitor set I): Eye irritant. Leupeptin (protease inhibitor set I): Eye irritant. Ethylenediaminetetraacetic acid (EDTA) (protease inhibitor set I): Eye irritant. Sulfuric Acid (stop solution): Risk of serious damage to eyes.
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**Inhalation** Leupeptin (protease inhibitor set I): Harmful if inhaled.  
Sulphuric Acid (stop solution): Harmful if inhaled.

**Ingestion** AEBSF (protease inhibitor set I): Harmful if swallowed.  
Leupeptin (protease inhibitor set I): Harmful if swallowed.

**Skin Contact** AEBSF (protease inhibitor set I): Skin irritant.  
Leupeptin (protease inhibitor set I): Skin irritant.  
Sulfuric Acid (stop solution): Skin irritant or corrosion.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** No data available  
**Persistence and degradability** No data available  
**Bioaccumulation/accumulation** No data available  
**Mobility in environmental media** No data available  
**Other hazardous effects** May be harmful to the environment, particularly aquatic organisms.

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods** Disposal should be in accordance with applicable national, state, and local laws and regulations. Local regulations may be more stringent than national or state requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

**14. TRANSPORT INFORMATION**

**DOT** Not dangerous goods.  
**IATA** Not dangerous goods.  
**ADR** Not dangerous goods.

**15. REGULATORY INFORMATION**

**United States (TSCA)** All ingredients are on the inventory or exempt from listing.  
**Canada (DSL / NDSL)** All ingredients are on the inventory or exempt from listing.  
**SARA 302 Components** Sulfuric Acid (Stop Solution): CAS 7664-93-9  
**SARA 313 Components** Sulfuric Acid (Stop Solution): Concentration <3%  
**SARA 311/312 Hazards** Sulfuric Acid (Stop Solution): Health hazard - Skin corrosion or Irritation  
 Health hazard - Serious eye damage or eye irritation  
**California Prop. 65 Components** Sulfuric Acid (Stop Solution): WARNING: This product contains a chemical known to the State of California to cause cancer.

**16. OTHER INFORMATION**

**Disclaimer** The above information was obtained from sources available at the time of revision and believed to be accurate and reliable. The information included is not intended to be all inclusive and should only be used as a guide. RayBiotech shall not be held liable for any damage resulting from use, handling, or contact with the above product.

**Last Revised** 1/19/2021

