

## 1. IDENTIFICATION

# **Product Identification**

Product Name

Human LRPAP ELISA Kit

Catalog Number Kit Components

Component	Size / Description
LRPAP Microplate (Item A)	96 wells (12 strips x 8 wells) coated with anti-Human LRPAP.
Wash Buffer Concentrate (20X) (Item B)	25 ml of 20X concentrated solution.
Standard Protein (Item C)	2 vials of Human LRPAP. 1 vial is enough to run each standard in duplicate.
Detection Antibody LRPAP (Item F)	2 vials of biotinylated anti-Human LRPAP. Each vial is enough to assay half the microplate.
HRP-Streptavidin Concentrate (Item G)	200 µl 700X concentrated HRP-conjugated streptavidin.
TMB One-Step Substrate Reagent (Item H)	12 ml of 3,3,5,5'-tetramethylbenzidine (TMB) in buffer solution.
Stop Solution (Item I)	8 ml of 0.2 M sulfuric acid.
Assay Diluent D (Item K)	15 ml of 5X concentrated buffer.
Assay Diluent B (Item E)	15 ml of 5X concentrated buffer.

### 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 200
	Peachtree Corners, GA 30092, USA
Telephone	1-888-494-8555 (Toll Free); 770-729-2992
Fax	770-206-2393
Website	www.RayBiotech.com
Email	info@raybiotech.com
Emergency Telephone Number	
Emergency Phone #	1-888-494-8555

## 2. HAZARDS IDENTIFICATION

### **Hazardous Ingredients**

1. 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

Sulfuric Acid (Stop Solution): Causes skin irritation (H315); Causes serious eye irritation (H319)

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## **GHS Label Elements**

Hazard Pictograms	
Signal Word	Warning
Hazard Statements	Sulfuric Acid (Stop Solution): Causes skin irritation (H315); Causes serious eye irritation (H319)
Prevention	Wear protective gloves, protective clothing, eye protection, face protection. Wash exposed skin thoroughly after handling.
Response	<ul><li>IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</li><li>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li><li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li></ul>
Storage	Not applicable.
Disposal	Dispose of contents/container to comply with local, state and federal regulations.
Hazards not otherwise classified	

### Hazards not otherwise classified

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture	Item A is substance. All other items are	e mixture.
Other means of identification	Not available	
CAS Numbers/other identifiers	5	
Ingredient Name	%	CAS Number
Sulfuric Acid	1-3	7664-93-9
Any percentage shown as a rang	ge is to protect confidentiality or is due to ba	atch variation.
There are no odditional increation		alara af tha ar malian and in

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. FIRST-AID MEASURES

### **Description of Necessary First Aid Measures**

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Skin Contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

#### **Potential Acute Health Effects**

Eye Contact	Sulfuric Acid (Stop Solution): Causes serious eye damage (H319)
Skin Contact	Sulfuric Acid (Stop Solution): Causes skin irritation (H315)
Inhalation	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards

## **Over-Exposure Signs/Symptoms**

No specific data.

#### **Notes to Physician**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

#### **Specific Treatments**

No specific treatment

#### **Protection of First-Aiders**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### 5. FIRE FIGHTING MEASURES

Extinguishing Media	Use an extiguishing agent suitable for the surrounding fire, such as water spray, carbon dioxide, dry chemical power or appropriate foam. Prevent contact with skin and eyes.
Chemical Hazards from Fire	In a fire or if heated, a pressure increase will occur and the component containers may burst.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal Precautions, Protective Equipment and Emergency Procedures

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	I and sewers. Inform the relevant authorities if the product has caused environmental	
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

May be stored for up to 6 months at 2° to 8°C from the date of shipment. Opened Microplate Wells or reagentsmay be store for up to 1 month at 2° to 8°C. Return unused wells to the pouch containing desiccant pack, reseal along entire edge. Reconstituted standard can be stored at -80°C for up to 1 week. Note: the kit can be used within one year if the whole kit is stored at -20°C. Avoid repeated freeze-thaw cycles.

### Handling

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Keep away from incompatible materials (see Section 10) and food and drink.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Permissible Exposure Limits (PELs)

		Regulatory Limits		Recommended Limits	
		OSHA PEL	Cal/OSHA PEL	NIOSH REL	ACGIH
Substance	ce CAS No.	mg/m3	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
Sulfuric acid	7664-93-9	1	0.1 mg/m3 (ST) 3 mg/m3	1 mg/m3	0.2 mg/m3 (Thor.)

#### **Appropriate Engineering Controls**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineeringcontrols to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless
Odor	Odorless
Physical State	Liquid
рН	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

#### 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.

# Acute toxicity

Ingredient Name	Result	Species	Dose	Exposure
Sulfuric Acid	LC50 Inhalation Gas LD50 Oral		347 ppm 2140 mg/kg	1 hour -

Irritation/Corrosion

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re l ifects		ipated: Oral, Der	mal Inholation			
fects	Routes of entry antici	ipated: Oral, Der	mal Inhalation			
			Routes of entry anticipated: Oral, Dermal, Inhalation.			
	Sulfuric Acid (stop so	olution): Risk of s	erious damage to eyes.			
I	No known significant	effects or critical	hazards.			
ľ	No known significant	effects or critical	hazards			
;	Sulfuric Acid (stop so	olution): Skin irrita	ant or corrosion.			
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al media	No data available					
; I	May be harmful to the environment, particularly aquatic organisms.					
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	Canada (DSL / NDSL)	All ingredients are on the inventory or exempt from listing.
	Europe	In accordance with Regulation (EC) No. 1907/2006 of the European Parliament and the Council (REACH) and Commission Regulation (EU) No. 830/2015. In accordance with Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures (CLP)
	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	June 14, 2021

This product is for research use only.



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