

**IDENTIFICATION** 

1.

	Product Identification	
	Product Name	RayBio Label-Based (L-Series) Human Hippo Pathway Screening Array
	Catalog Number	AAH-BLG-HIP
	Kit Components	
	Usage	
	This product is furnished for LABORATOR	Y RESEARCH USE ONLY. Not for diagnostic or therapeutic use.
	Supplier Identification	
	Company	RayBiotech, Inc.
		3607 Parkway Lane, Suite 100
		Peachtree Corners, GA 30092
		USA
	Telephone	1-888-494-8555 (Toll Free); 770-729-2992
Fax Website		770-206-2393
		www.RayBiotech.com
	Email	info@raybiotech.com
	Emergency Telephone Number	
	Emergency Phone #	1-888-494-8555

# 2. HAZARDS IDENTIFICATION

## Hazardous Ingredients

- 1. The 2X Cell Lysis Buffer contains Triton-X-100.
- 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

Triton-X-100 (Lysis Buffer): Skin Corr./Irrit. 1A (H314); Acute Oral Toxicity Sulfuric Acid (Stop Solution): Skin Corr./Irrit. 1A (H314)

# **GHS Label Elements**

Hazard Pictograms

Signal Word/s

Hazard Statements



Warning Triton-X-100 (Lysis Buffer): Causes skin irritation (H315); Causes serious eye irritation (H319); Harmful if swallowed (H302) Sulfuric Acid (Stop Solution): Causes skin irritation (H315); Causes serious eye irritation (H319)

None known.

# 3.COMPOSITION/INFORMATION ON INGREDIENTS<br/>CAS Numbers/other identifiersIngredient Name<br/>Triton-X-100%<br/>4CAS Number<br/>9002-93-1Sulfuric Acid0.27664-93-9

# 4. FIRST-AID MEASURES

# **Description of Necessary First Aid Measures**

Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Che for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attenti irritation occurs.		
Skin Contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing and clean shoes before reuse.		
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.		

# **Potential Acute Health Effects**

Eye Contact	Sulfuric Acid (Stop Solution): Causes serious eye damage (H319) Triton-X-100 (Lysis Buffer): Causes serious eye irritation (H319)
Skin Contact	Sulfuric Acid (Stop Solution): Causes skin irritation (H315) Triton-X-100 (Lysis Buffer): Causes skin irritation (H315)
Ingestion	Triton-X-100 (Lysis Buffer): Harmful if swallowed (H302)

# **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	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.

## 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.

# 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.

# 11. TOXICOLOGICAL INFORMATION Acute toxicity

Ing	gredient Name	Resu	lt	Species	Dose
Tri	ton-X-100	LD50		Oral rat female Oral rat male	707 mg/kg 2140 mg/kg
Su	lfuric Acid	LD50		Oral rat Inhalation rat	347 ppm 2140 mg/kg
Car	cinogenicity		Not listed as a	carcinogen by ACGIH, IAR	C, NTP, or CA Prop 65
Sen	sitization		Not Available		
Mut	agenicity		Not available		
Rep	roductive Toxicity		Not Available		
-	cific target organ toxic gle exposure)	ity	Not available		
Specific target organ toxicity (repeated exposure)		Not available			
Asp	iration hazard		Not available		
Like	ely routes of exposure		Routes of entry	anticipated: Oral, Dermal,	Inhalation.
Pot	ential acute health effect	cts			
Eye	contact		damage to eyes		(stop solution): Risk of serious us damage to eyes.
Inha	alation		Sulphuric Acid	(stop solution): Harmful if ir	nhaled.
Inge	estion		•	sis buffer): Harmful if inges	
-	n Contact		Triton-X-100 (ly	rsis buffer): Skin irritant or o top solution): Skin irritant o	corrosion.
ECC		ON			
Ecotoxicity		No data available			
Persistence and degradability		No data available			
Bio	accumulation/accumula	ation	No data availab	ble	
Mot	oility in environmental r	nedia	No data availab	ble	
Oth	er hazardous effects		May be harmfu	I to the environment, partic	ularly aquatic organisms.
DIS	POSAL CONSIDERATIO	ONS			
Disj	oosal methods		laws and regula state requirement public sewers of	ations. Local regulations manual state or the state of the state or landfills. Do not dump int	plicable national, state, and local ay be more stringent than nationa regulations before discharging int o any body of water. Contact a ice for appropriate methods of
TRA		<b>N</b>			
DO	Г		Not dangerous	goods.	
IAT	Α		Not dangerous	goods.	
ADF	R		Not dangerous	goods.	
REC	<b>SULATORY INFORMAT</b>	ION			
	ed States (TSCA)		All ingredients a	are on the inventory or exe	mpt from listing.
	ada (DSL / NDSL)		•	are on the inventory or exe	
	ope		•	•	272/2008 - classification, labelling

	SARA 302 Components	Triton-X-100 (lysis buffer): CAS 9002-93-1 Sulfuric Acid (Stop Solution): CAS 7664-93-9
	SARA 313 Components	Triton-X-100 (lysis buffer): Concentration <3% 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	3/13/2023

