

SAFETY DATA SHEET

Version 7.0 Revision Date June 14, 2021

1. IDENTIFICATION

Product Identification

Product Name Mouse VEGF-A ELISA Kit (For Lysates)

Catalog Number ELM-VEGF-CL

Kit Components

Component	Size / Description
VEGF Microplate (Item A)	96 wells (12 strips x 8 wells) coated with anti-Mouse VEGF.
Wash Buffer Concentrate (20X) (Item B)	25 ml of 20X concentrated solution.
Standard Protein (Item C)	2 vials of Mouse VEGF. 1 vial is enough to run each standard in duplicate.
Detection Antibody VEGF (Item F)	2 vials of biotinylated anti-Mouse VEGF. Each vial is enough to assay half the microplate.
HRP-Streptavidin Concentrate (Item G)	200 μl 160X 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.
Sample Diluent Buffer (Item D2)	10 ml of 5X concentrated buffer.
Assay Diluent (Item E2)	15 ml of 5X concentrated buffer.
Lysis Buffer (Item J)	5 ml of 2X cell lysate buffer.

Usage

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

Supplier Identification

Company RayBiotech, Inc.

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2. HAZARDS IDENTIFICATION

Hazardous Ingredients

- 1. Stop Solution contains Sulfuric Acid
- 2. Lysis Buffer contains Triton-X-100.

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)

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

GHS Label Elements

Hazard Pictograms



Signal Word Warning

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

eye irritation (H319)

Hazard Statements
Triton-X-100 (Lysis Buffer): Causes skin irritation (H315); Causes serious eye

irritation (H319); Harmful if swallowed (H302)

Prevention Wear protective gloves, protective clothing, eye protection, face protection.

Wash exposed skin thoroughly after handling.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

Response skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Storage Not applicable.

Disposal Disposal Disposal Disposal

regulations.

Hazards not otherwise classified

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture Item A is substance. All other items are mixture.

Other means of identification

Not available

CAS Numbers/other identifiers

Ingredient Name	<u>%</u>	CAS Number
Sulfuric Acid	1-3	7664-93-9
Triton-X-100	1-3	9002-93-1

Any percentage shown as a range is to protect confidentiality or is due to batch variation.

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)

Triton-X-100 (Lysis Buffer): Causes serious eye irritation (H319)

Skin Contact

Sulfuric Acid (Stop Solution): Causes skin irritation (H315)

Triton V 100 (Lygis Buffer): Causes skin irritation (H315)

Triton-X-100 (Lysis Buffer): Causes skin irritation (H315)

Inhalation No known significant effects or critical hazards.

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**

Use an extiguishing agent suitable for the surrounding fire, such as water **Extinguishing Media**

spray, carbon dioxide, dry chemical power or appropriate foam. Prevent

contact with skin and eyes.

In a fire or if heated, a pressure increase will occur and the component Chemical Hazards from Fire

containers may burst.

ACCIDENTAL RELEASE MEASURES 6.

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	The specific and including the specific and included including the specific and intermediate in the specific and including the sp		
Environmental Precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drain and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).			
Protective Equipment	II Wear respirator, chemical safety googles, 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 vater-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and blace 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)

Substance CAS No.		Regulatory Limits		Recommended Limits	
	OSHA PEL	Cal/OSHA PEL	NIOSH REL	ACGIH	
	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	11 mg/m3 1	0.2 mg/m3 (Thor.)

Appropriate Engineering Controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls 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

Annogrange	Claar salariasa
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

Ingredient Name	Result	Species	Dose	Exposure
Sulfuric Acid	LC50 Inhalation Gas LD50 Oral	II I	347 ppm 2140 mg/kg	1 hour
Triton-X-100	LD50	Oral rat female Oral rat male	707 mg/kg 2140 mg/kg	-

Irritation/Corrosion

Ingredient Name	Result	Species	Exposure	Observation
Sulfuric Acid	Eyes - Severe irritant Eyes - Severe irritant	li Kannit — I	250 Micrograms 0.5 minutes 5 milligrams	-

Sensitization Not Available Mutagenicity Not available

Classification

Ingredient Name OSHA IARC NTP

Sulfuric Acid 1 Known to be a human carcinogen.

Reproductive Toxicity Not Available

Specific target organ toxicity

(single exposure)

Not available

Specific target organ toxicity

Not available (repeated exposure) Aspiration hazard Not available

Likely routes of exposure Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Triton-X-100 (lysis buffer) & Sulfuric Acid (stop solution): Risk of serious Eye contact

damage to eyes.

Inhalation No known significant effects or critical hazards. Triton-X-100 (lysis buffer): Harmful if ingested Ingestion

Triton-X-100 (lysis buffer) & Sulfuric Acid (stop solution): Skin irritant or **Skin Contact**

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 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.

TRANSPORT INFORMATION

Disposal methods

14.

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

15. REGULATORY INFORMATION

Europe

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.

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
Triton-X-100 (Lysis Buffer): CAS 9002-93-1

Sulfuric Acid (Stop Solution): Concentration <3%

SARA 313 Components

Triton-X-100 (Lysis Buffer): Concentration <3%

Sulfuric Acid (Stop Solution): Health hazard - Skin corrosion or Irritation

SARA 311/312 Hazards

Health hazard - Serious eye damage or eye irritation

Triton-X-100 (Lysis Buffer): 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.

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This product is for research use only.



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