

MATERIAL SAFETY DATA SHEET

Product name:

Lambda (Human) ELISA Kit

Catalog number:

KA1969

1. Composition/Information on Ingredients

Component	Size
Diluent Concentrate	50 mL
Wash Solution Concentrate	50 mL
Enzyme-Antibody Conjugate Concentrate	150 µL
TMB Substrate Solution	12 mL
Stop Solution	12 mL
Microtiter Plate	96-well
Calibrator (Lyophilized)	1 vial

2. Hazards Identification

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Proclin 300:	N/A	
Diluent Concentrate		0.5 %
Wash Solution Concentrate		0.05 %

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Sodium Azide (NaN ₃):	26628-22-8	
Calibrator		≤ 0.1 %

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Sulfuric Acid:	7664-93-9	
Stop Solution		0.3 M

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Thimerosal:	54-64-8	
Enzyme-Antibody Conjugate Concentrate		< 0.004 %

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
3,3',5,5'-Tetramethylbenzidine	54827-17-7	
TMB Substrate Solution		≤ 0.05 %

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Hydrogen peroxide:	7722-84-1	
TMB Substrate Solution		< 0.1 %

3. First Aid Measures

First aid personnel should ensure self-protection.

General informations: Because of the low concentrations of the ingredients seeing a doctor is not necessary.

In case of skin contact: If any component of this kit contacts the skin, immediately flush with copious amounts of water and wash with soap and water. Remove contaminated clothing and shoes. Call a physician if irritation or discomfort develops.

In case of eye contact: If any component of this kit contacts the eyes, flush the eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Call a physician..

In case of ingestion: If any component of this kit is swallowed, wash mouth with water provided person is conscious. Call a physician or poison control..

In case of inhalation: If any component of this kit is inhaled, remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. Call a physician.

4. Fire Fighting Measures

Fire fighting media should be selected depending on the surrounding materials and equipment. Non-combustible. Ambient fire may liberate hazardous vapors. It is recommended that firefighters wear protective gear and self-contained breathing apparatus to limit their exposure.

5. Accidental Release Measures

Ventilate area. Wear appropriate protective gear. Wipe or pick-up materials, dispose of in accordance with federal, state, and local regulations. Wash spill site thoroughly with soap and water after material pick up is complete.

6. Handling and Storage

Handling instructions: This kit should only be handled and used by qualified, trained professionals. General good laboratory practice should be maintained. Handle calibrators and unknown samples as potentially infectious.

Storage instructions: Store at temperatures between +4°C in a dry and dark place.

7. Exposure controls/personal protection

Engineering Controls: Use with adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual Protection Measures: Wear suitable protective clothing and appropriate footwear as protection against splashing or contamination. Wear approved safety goggles and protective gloves. Wash hands before work breaks and on finishing the work.

8. Physical and Chemical Properties

Physical State and Appearance:

Antibody coated microwells- solid

Calibrator-light brown liquid

HRP Conjugate-light brown liquid

5X Diluent-green liquid solution

All other components-Clear liquid solution

Solubility: All components are soluble in water except the antibody coated microwells

Odor: None detectable

Boiling Point: Not Available

Melting point: Not Available

Vapor Pressure: Not Available

Vapor Density: Not Available

Evaporation Rate: Not Available

pH: Neutral except for Stop Solution (pH ~0.9)

9. Stability and Reactivity

Chemical Stability: This product is stable until the expiration date indicated on the kit label under the recommended storage conditions.

Reactivity: No data available

Conditions to avoid: Extreme temperatures

Materials to avoid: Generally use only clean glass and plastic suitable for laboratory use for handling the kit components. Note that individual ingredients are incompatible with strong oxidizing agents, metals and strong bases.

10. Toxicological Information

Because of the small size of the containers and the low concentrations of hazardous ingredients, the toxicological risks are minor. Toxicological experiments have not been done on the kit components.

11. Ecological information

Not available.

12. Disposal guidelines

For every component, waste must be disposed according to federal, state, and local environment control regulations.

13. Transport information

No special transport regulations.

14. Regulatory information

No kit component contains a hazardous ingredient in an amount that requires identification and labeling..

15. Other

The above information is believe to be correct but does not purport to be all-inclusive and is intended to be used only as a guide. We shall not be liable or responsible in any way for use of either this information or the material supplied. Final determination of suitability and safe use of these materials is the sole responsibility of the user. Disposal of hazardous material may be subject to federal, state or local laws or regulations..