

1. Identification of product and manufacturer

- 1.1 Product name: LAL Chromogenic Endpoint Assay
Catalog number: **HIT302**
- 1.2 Intended uses: For research use only. Not for use in or on humans and animals or for diagnostics.
- 1.3 Manufacturer: Hycult Biotech
Frontstraat 2a
5405 PB Uden
The Netherlands
Tel.: +31 (0)413 251335
www.hycultbiotech.com
info@hycultbiotech.com
- 1.4 Emergency phone #:112 in Europe and 911 in America

2. Hazards identification

The following hazard Classification and Label elements are attributable to the Stop Solution, which contains 50% Acetic Acid. The ingredients present in the standards and LAL reagent are in an amount that does not require labeling accordance with EC directives or respective national laws.

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

Skin corrosion (Sub-category 1B), **H314**: Causes severe skin burns and eye damage.
Serious eye damage (Category 1), **H318**: Harmful if swallowed or in contact with skin.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008



Pictogram:

Signal Word: Danger

Hazard statement(s): **H314**: Causes severe skin burns and eye damage.
H318: Harmful if swallowed or in contact with skin.

Precautionary statement(s): **P280**: Wear protective gloves/ protective clothing/ eye protection/ face protection

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338 +P310; IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Supplemental Hazard Statements: none

3. Information on ingredients

The following chemical substances can be found in the components of the kit, **HIT302** contains:

Component	Substance	Identification number	Hazard Limit	Concentration
Stop solution	Acetic acid	607-002-00-6 (Index No) 200-580-7 (EC No) 64-19-7 (CAS No)	> 1%	50%
Standard	LPS from Escherichia coli	297-473-0 (EC No) 93572-42-0 (CAS No)	Not applicable	≤ 0.5 µg
LAL reagent	Limulus amoebocyte lysate	271-731-2 (EC No) 68606-22-4 (CAS No)	Not applicable	< 80%

4. First aid measures

IF INHALED: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

IF SWALLOWED: Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting. Immediately call a POISON CENTER or physician.

IF ON SKIN: Immediately remove all contaminated clothing. Rinse skin with water. Consult a physician.

IF IN EYES: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION.

5. Firefighting measures

Preferable firefighting methods: dry chemicals, carbon dioxide, alcohol-resistant foam or sand depending on the surrounding equipment and materials.

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

6. Accidental release measures

6.1 Personal precautions: Avoid direct contact with skin, eyes and clothing. Do not inhale vapors or fumes.

6.2 Environmental precautions: Prevent contamination of soil, drains and surface water. Dispose of in accordance with all applicable laws and regulations.

6.3 Cleaning procedure: Soak up with inert absorbent material. After removing the substance, clean the contaminated area and disinfect.

7. Handling and storage

For optimal performance, it is recommended to work according to Good Laboratory Practice (GLP). Avoid prolonged exposure to light. Store in a cool, dry, well-ventilated place in securely closed original packaging. Please refer to labeling and manual instructions for correct storage and handling of the product and its individual reagents.

8. Exposure controls / personal protection

There is no exposure limit value known. The following precautionary measures are recommended as a means of personal protection:

Skin: Wear laboratory protective clothing and closed footwear.

Respiratory protection: None

Eye protection: Safety goggles are recommended when eye contact is possible.

Hands: Use protective gloves that are chemical resistant.

Use only with adequate ventilation. Please make sure to wash hands thoroughly after handling chemical products or before eating, smoking and using the restroom.

9. Physical and chemical properties

<u>Appearance:</u>	Liquid or lyophilized.		
<u>Color:</u>	Colorless: Dilution buffer and stop solution. White: LAL reagent and standard.		
<u>Odor:</u>	Odorless		
<u>pH:</u>	All components are pH-neutral. Exception here is the stop solution (pH 2-3).		
<u>Solubility:</u>	Soluble in water		
<u>Boiling point:</u>	Not determined (ND)	<u>Decomposition temperature:</u>	ND
<u>Evaporation rate:</u>	ND	<u>Viscosity:</u>	ND
<u>Vapor pressure:</u>	ND	<u>Vapor density:</u>	ND
<u>Relative density:</u>	ND	<u>Melting point/freezing point:</u>	ND
<u>Flash point:</u>	>60°C	<u>Flammability:</u>	ND
<u>Autoignition temperature:</u>	ND	<u>Particle characteristics:</u>	ND

10. Stability and reactivity

Products are stable if handled according to the described storage conditions and before the mentioned expiry date. Use only sterile glass and plastics (polypropylene) suitable for laboratory use. The product or any of its components have no known hazardous reactions or decomposition products. Avoid freezing and prolonged exposure to light.

11. Toxicological information

Except for the stop solution, the kit components are in small sizes with a concentration below the acceptable limit for hazardous ingredients. The toxicological risk is minimal. No toxicological experiments have been performed with the kit components.

12. Ecological information

Except for the stop solution, the kit components are in small sizes with a concentration below the acceptable limit for hazardous ingredients. The stop solution must be neutralized or diluted before disposing. The environmental impact of the kit and all of its components has not been evaluated. There are no significant ecological effects or critical hazards known.

13. Disposal considerations

The generation of waste should be avoided or minimized wherever possible. The product and packaging must be disposed in accordance with all applicable laws and regulations.

14. Transport information

This product is not regulated or classified for transportation of hazardous goods by road, air, rail or sea.

15. Regulatory information

This SDS has been compiled in accordance with the directives 1907/2006/EC, 1272/2008/EC and 2020/878/EC. For research use only. Not for use in or on humans and animals or for diagnostics.

16. Other information

Employers must ensure that Safety Data Sheets are readily accessible to employees for all hazardous chemicals in their workplace. All SDS's for Hycult Biotech ELISA kits can be downloaded from the website via the respective product pages.

The information provided is believed to be correct and is intended as a guide to users. Hycult Biotech cannot be held responsible or be liable for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Read instructions carefully prior to use. Products may only be handled by technically qualified laboratory personnel. GLP is required.