

1. Identification of product and manufacturer

Product name: Alpha-1-antitrypsin, Human, ELISA
Catalog number: HK387-01 and HK387-02
Intended uses: The kit is to be used for the *in vitro* quantitative determination in serum, sputum, plasma and urine samples. For research use only. Not for use in or on humans and animals or for diagnostics.
Manufacturer: Hycult Biotech
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Tel.: +31 (0)413 251335
www.hycultbiotech.com
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Emergency phone #: 112 in Europe and 911 in America

2. Hazards identification

There are no hazardous ingredients present in the product in an amount that requires labeling in accordance with EC directives or respective national laws. However, ingestion or exposure to large amounts can potentially be hazardous.

3. Information on ingredients

The following chemical substances can be found in the components of the kit:

Component	Substance	Identification number	Concentration in %
Buffers, standards and tracers	2-chloroacetamide	616-036-00-0 (Index No) 201-174-2 (EC No) 79-07-2 (CAS No)	≤ 0.05
Lyophilized standards and tracers	2-chloroacetamide	616-036-00-0 (Index No) 201-174-2 (EC No) 79-07-2 (CAS No)	≤ 0.05
Stop solution	Oxalic acid	607-006-00-8(Index No) 205-634-3 (EC No) 144-62-7 (CAS No)	2.0

The standard can be of human origin. It was tested for various viruses and found negative. Since no test method can offer complete assurance that infectious agents are absent, this reagent should be handled as any potentially infectious human serum or blood specimen. Handle all materials in contact with this reagent according to guidelines for prevention of transmission of blood-borne infections.

4. First aid measures

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

5. Firefighting measures

May be combustible at high temperature. Use water spray, dry chemicals, carbon dioxide, foam or sand depending on the surrounding equipment and materials. There are no unusual fire or explosion hazards known for any of the components.

6. Accidental release measures

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

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

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: None

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

Appearance: Liquid or lyophilized

Color: Colorless: Wash buffer, wash/dilution buffer, binding buffer, plasma diluent, stop solution and TMB substrate.

White: Lyophilized standard, tracer and HRP-labeled conjugate

Amber: Plate activation buffer, lyophilized standard, plasma diluent, dilution buffer, streptavidin peroxidase conjugate and HRP-labeled conjugate.

Odor: Odorless

pH: Components are pH-neutral. Exception is the stop solution (pH 2-3).

Solubility: Soluble in water

Boiling point: Not determined (ND) Decomposition temperature: ND

Evaporation rate: ND Viscosity: ND

Vapor pressure: ND Vapor density: ND

Relative density: ND Melting point/freezing point: ND

Flash point: ND Flammability: 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

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

The kit components are in small sizes with a concentration below the acceptable limit for hazardous ingredients. 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. Please note that the standard, positive – and negative control can be of human origin.

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 and 1272/2008/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.