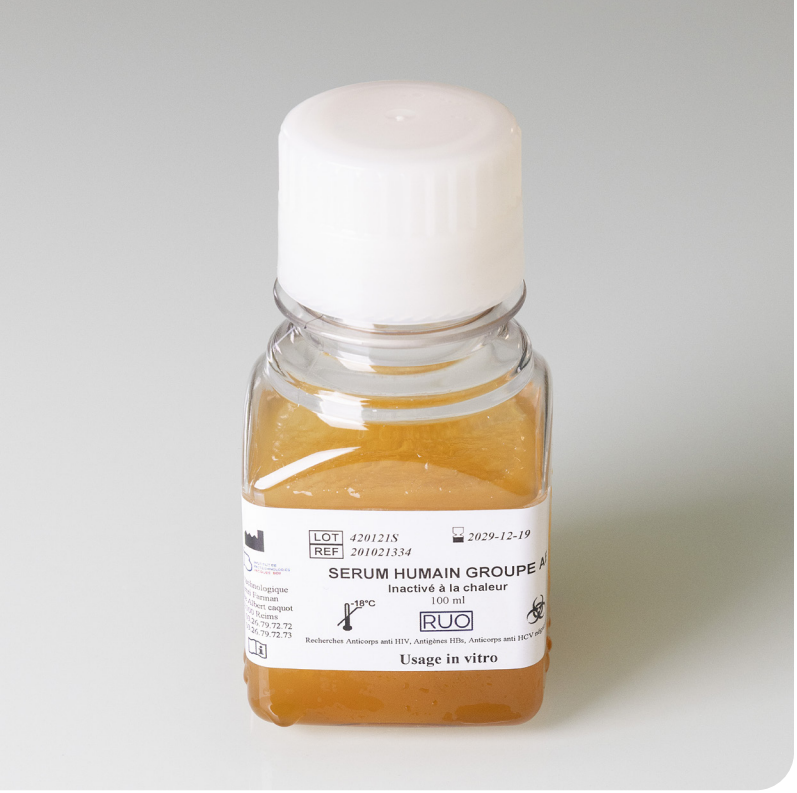

INSTITUT DE BIOTECHNOLOGIES JACQUES BOY

REFERENCE :
201021334

Heat-inactivated AB serum

For Research Use Only.

Origin of human serum: France

Human serum is the liquid part of human blood depleted of the cellular fraction and fibrinogen. This heat-inactivated AB serum has been manufactured from human AB plasma from voluntary donors and collected in accordance with French regulations.

Inactivated AB Serum is an essential component for many applications in cell culture immunology and biotechnology research. It is a complex mixture of molecules, whose major role is to provide cells essential elements for cell function and growth (growth factors, hormones, buffering agents and other nutritional nutritional elements).

Sera are heat inactivated (+56°C for 45 minutes) before pooling, in order to eliminate complement factors that interfere with certain experiments. The serum pool is then filtered through 0.2 µm, after a series of successive filtrations.

Features *and benefits*

- **Controlled source and optimal quality**
  Produced from AB human serum collected in France, in accordance with current regulations.
- **Rigorous heat inactivation**
  Treatment at +56°C for 45 minutes, ensuring the elimination of complement factors and stabilisation of the serum.
- **Advanced filtration process**
  Serum filtered to 0.2 µm after several filtration steps to ensure high purity.
- **Certification and traceability**
  A control certificate is supplied with each batch, guaranteeing full traceability of the product.
- **Low immunoreactivity**
  The serum of blood group AB is free from antibodies to type A and B antigens, which minimises immunoreactivity. This serum is used in areas of study where it is important to control immunoreactivity,such as cell therapy and immunotherapy research.
- **No components of animal origin**

Applications and areas of use

Cell culture

Used as a complementary medium to promote the growth and viability of cells *in vitro* culture.

Biotechnology and diagnostics

A key component in the development of new tests and biomedical applications.

Studies in haematology and immuno-haematology

Integrated into tests requiring a standardised human biological matrix.

Immunological tests

Used as a reference medium for serological and immunological tests requiring an inert human matrix.

Ease of use and storage conditions

Available in 100 mL bottles for immediate use in the laboratory.

Long-term storage:

- Store at a temperature ≤ -18°C until expiry date.
- May be stored at +2°C to +8°C for 1 month after thawing, in a dark area, protected from light.

Optimised defrosting protocol:

- Bring to room temperature (+15°C to +25°C) for 10 minutes.
- Then placed in a water bath at +37°C, with gentle agitation every 10 to 15 minutes until thawing is complete.
- Once the serum has thawed, storage at room temperature (+15°C to +25°C) should not exceed 20 hours.

Limiting freeze/thaw cycles:

- To avoid the formation of cryoprecipitates, it is recommended to aliquot the serum after the first thawing.

Safety and compliance

This product is strictly intended for in vitro use in research, to the exclusion of any therapeutic or clinical application.

It is subject to rigorous safety tests, including systematic negative screening for antibodies anti-HIV 1+2, anti-HCV and HBs antigen, in accordance with French requirements.

It must be handled under aseptic conditions, with the recommended use of gloves to ensure the safety of users.

The product also complies with current standards applicable to products of human origin used in research.

Why choose *IBJB heat-inactivated serum ?*

A reliable and controlled source, guaranteeing total traceability.

A heat-inactivated serum for maximum stability and homogeneity.

Compliance with safety standards, ensuring risk-free use in *in vitro* research.

Support and guidance

Training and recommendations of use

Optimisation advice to limit experimental variability and improve the reproducibility.

Dedicated scientific support

Assistance to optimise the integration of serum into experimental protocols.

Technical documentation supplied

Each batch is accompanied by instructions and a quality certificate.

INSTITUT DE BIOTECHNOLOGIES JACQUES BOY

Developed and manufactured by :
Institut de Biotechnologies Jacques Boy

Carefully read the instructions provided in the product's IFU.

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La FRENCH FAB

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