

Instructions for Use

Heat Inactivated Serum

Bottled Media

REF - HIS

1. Intended Use

Heat Inactivated Serum (HIS) is used for supplementation of microbiological culture media. It is produced from defibrinated horse blood which has been heat treated to inactivate complement.

2. Composition*

Ingredient

Filtered serum from antibiotic-free defibrinated horse blood	100%
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*Adjusted/supplemented as needed to meet performance requirements

3. Summary, Explanation and Principles

E&O Heat Inactivated Serum is suitable for use as a nutritional supplement in the preparation of culture media. Sterile horse serum can be used in both microbiological broths and agars.

E&O Heat Inactivated Serum is collected from antibiotic free herds located in the UK. The serum is processed through a triple filtration system with a final filter step of 0.2µm pore size. Serum contains complement which may cause complement-mediated cell lysis. It can be heat treated to inactivate complement and lower this risk. After filtration, the dispensing and bottle filling processes are carried out in a clean room under laminar flow to ensure aseptic transfer. Once labelled, the filled bottles are immediately frozen and stored at -20°C.

4. Preparation Instructions

Follow instructions for production of the medium. Aseptically add the required volume of Heat Inactivated Serum to the cooled medium. Mix gently but thoroughly before dispensing the complete medium to the required container.

5. Physical Characteristics

Appearance and Colour	Red/orange liquid
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6. Materials Provided

Heat Inactivated Serum (HIS) can be provided in the formats detailed below:

Product code	Product format
HIS050-N100-50	1 x 50ml in 100ml PETG Bottle
HIS100-N100-100	1 x 100ml in 100ml PETG Bottle
HIS500-N100-500	1 x 500ml in 500ml PETG Bottle

Each bottle is labelled with (abbreviated) product name, product code, lot number and expiry date.

7. Materials Needed but not Provided

Standard microbiological laboratory materials e.g., mixers, autoclave, suitable containers, sterile loops or swabs, collection containers, incubators, and quality control organisms.

8. Specimens

Media containing Heat Inactivated Serum may be used in production of media to isolate a range of pathogenic bacteria from a wide variety of clinical specimens. Refer to appropriate standard method or local guidance for medium production, sample collection, and subsequent processing.

9. Test Procedures and Interpretation of results

Dependent on final medium required, follow manufacturer's instructions on preparation of the culture medium. Sterilise and cool the base medium prior to adding the Heat Inactivated Serum (HIS). Mix gently but thoroughly before dispensing to the final container.

10. Quality Control

Organism	Incubation	Result (Specificity)
N/A	Sterility Testing: Incubate at 37 ± 1°C aerobically for 72 hours and at 20 ± 5°C for 120 hours	No growth

It is the responsibility of the user to perform Quality Control testing taking into consideration the intended use of the medium produced, and in agreement with any local relevant guidelines (e.g., frequency, strains used, atmosphere, incubation temperature).

11. Performance

To fully verify sterility of Heat Inactivated Serum, samples were incubated aerobically at $37 \pm 1^\circ\text{C}$ for 72 hours and at $20 \pm 5^\circ\text{C}$ for 120 hours. No growth was observed, and samples were concluded to be sterile. Therefore, it can be concluded that Heat Inactivated Serum meets the required criteria and may be used for supplementation of microbiological media.

12. Limitations of the Media

Heat Inactivated Serum is a supplement and is not to be used independently. Limitations will vary depending on the final medium produced.

13. Precautions and Warnings

This product is considered non-hazardous under CLP regulations. Wear such PPE as recommended by laboratory COSHH assessment. During and after use, always handle all materials in a manner conforming to Good Laboratory Practice and consider that material under test should be regarded as a potential biohazard if mishandled.

Refer to E&O HIS Bottled Media Material Safety Data Sheet.

14. Storage conditions and Shelf life

Store Heat Inactivated Serum in the original bottle with the lid tightly closed at between 2 and 8°C in the dark. Kept under these conditions it may be used up to date of expiry shown on product label.

Dispose of in accordance with local and national authority requirements. Do not use the Heat Inactivated Serum if it is contaminated, discoloured or out of date. Additionally, do not use Heat Inactivated Serum if it has been stored inappropriately or the packaging has been damaged.

Version History*

001 29/04/2025 - New document created

*Note: minor typographical, grammatical, and formatting changes are not included in the revision history.












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TABLE OF APPLICABLE SYMBOLS

IFU/HIS REV. 001

 REF Catalogue number	 LOT Batch code		 Manufacturer	 Use by
 Temperature limitation	 Contents sufficient for <n> tests	 Consult Instructions for Use	 Keep away from direct light	 Store in a dry place