

Influenza Reagent Influenza anti-B Neuraminidase serum (B/Austria/1359417/2021) (B Victoria lineage) NIBSC code: 24/190 Instructions for use (Version 1.0, Dated 28/03/2025)

§

1. INTENDED USE

Influenza antiserum reagent 24/190 is prepared in sheep for neuraminidase (NA) identity tests.

2. CAUTION

This preparation is not for administration to humans or animals in the human food chain.

The material is not of human or bovine origin.

As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

3. UNITAGE

No unitage is assigned to this material.

4. CONTENTS

Country of origin of biological material: United Kingdom.

The antiserum was prepared in sheep SH855, SH856 and SH857, immunised with recombinant NA of B/Austria/1359417/2021 expressed in Baculovirus/InsectCells. One dose of approximately 100 micrograms of recombinant NA with Freund's complete adjuvant (FCA) was given intramuscularly. A further dose of approximately 50 micrograms, with Freund's incomplete adjuvant (FIA), was given after two weeks. This was followed by four further doses of 50 micrograms of recombinant NA with FIA. Seven weeks after the initial immunization, serum was collected and sodium azide (0.05% w/v) was added.

The serum was then treated by an APHIS approved method for the inactivation of FMDV, then filled into vials in 1ml volumes.

5. STORAGE

+2-8°C

However, if it is intended to store the reagent for long periods i.e. >2 years, they may be stored at -20° C. The antiserum can be frozen and thawed without any adverse impact on its use.

6. DIRECTIONS FOR OPENING

Vials have a screw cap; an internal stopper may also be present. The cap should be removed by turning anti-clockwise. Care should be taken to prevent loss of the contents. Please note: If a stopper is present on removal of the cap, the stopper should remain in the vial or be removed with the cap.

7. USE OF MATERIAL

Reagent 24/190 should be used in tests of NA identity, such as NA inhibition (NI) test of Aymard-Henry M, Coleman MT, Dowdle WR, Laver WG, Schild GC and Webster RG. Bull WHO, 1973, 48, 199-202..

8. STABILITY

It is the policy of WHO not to assign an expiry date to their international reference materials. They remain valid with the assigned potency and status until withdrawn or amended.

Reference materials are held at NIBSC within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label. Once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use.

NIBSC follows the policy of WHO with respect to its reference materials.

Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact NIBSC.

9. REFERENCES

None

10. ACKNOWLEDGEMENTS

None

11. FURTHER INFORMATION

Further information can be obtained as follows; This material: enquiries@nibsc.org WHO Biological Standards: http://www.who.int/biologicals/en/

JCTLM Higher order reference materials:

http://www.bipm.org/en/committees/jc/jctlm/

Derivation of International Units:

http://www.nibsc.org/standardisation/international_standards.aspx

Ordering standards from NIBSC:

http://www.nibsc.org/products/ordering.aspx

NIBSC Terms & Conditions:

http://www.nibsc.org/terms_and_conditions.aspx

12. CUSTOMER FEEDBACK

Customers are encouraged to provide feedback on the suitability or use of the material provided or other aspects of our service. Please send any comments to enquiries@nibsc.org

13. CITATION

In all publications, including data sheets, in which this material is referenced, it is important that the preparation's title, its status, the NIBSC code number, and the name and address of NIBSC are cited and cited correctly.



14. MATERIAL SAFETY SHEET

Classification in accordance with Directive 2000/54/EC, Regulation (EC) No 1272/2008: 1

(EC) NO 1272/2008. 1			
Physical and Chemical properties			
Physical	Corro	sive:	No
appearance: Liquid			
Stable:	Oxidi	sing:	No
Yes			
Hygroscopic: No	Irritar	nt:	No
Flammable:	Hond	lin a .	Can assition Coation 2
No	Hand	iing:	See caution, Section 2
Other (specify): Contains Sheep Serum and Sodium Azide (0.05% w/v)			
Toxicological properties			
Effects of inhalation: Not established, avoid inhalation			
Effects of ingestion: Not established, avoid			
ingestion			
Effects of skin absorption: Not established, avoid contact with skin			
Suggested First Aid			
Inhalation: S	eek medical advice		
Ingestion: S	eek medical advice		
Contact with eyes: Wash with copious amounts of water. Seek			
medical advice			
Contact with skin: Wash thoroughly with water.			
Action on Spillage and Method of Disposal			
Spillage of ampoule contents should be taken up with absorbent material wetted with an appropriate disinfectant. Rinse area with			

15. LIABILITY AND LOSS

biological waste.

an appropriate disinfectant followed by water.

In the event that this document is translated into another language, the English language version shall prevail in the event of any inconsistencies between the documents.

Absorbent materials used to treat spillage should be treated as

Unless expressly stated otherwise by NIBSC, NIBSC's Standard Terms and Conditions for the Supply of Materials (available at http://www.nibsc.org/About_Us/Terms_and_Conditions.aspx or upon request by the Recipient) ("Conditions") apply to the exclusion of all other terms and are hereby incorporated into this document by reference. The Recipient's attention is drawn in particular to the provisions of clause 11 of the Conditions.

16. INFORMATION FOR CUSTOMS USE ONLY

Country of origin for customs purposes*: United Kingdom
* Defined as the country where the goods have been produced
and/or sufficiently processed to be classed as originating from the
country of supply, for example a change of state such as freezedrying.

Net weight: 1g

Toxicity Statement: Non toxic

Veterinary certificate or other statement if applicable.

Attached: Yes SH855, SH856, SH857

National Institute for Biological Standards and Control,

Potters Bar, Hertfordshire, EN6 3QG. T +44 (0)1707 641000, nibsc.org WHO International Laboratory for Biological Standards, UK Official Medicines Control Laboratory





Alex McSloy Named Veterinary Surgeon Royal Veterinary College Royal College Street LONDON NW1 0TU

VETERINARY CERTIFICATE OF ANIMAL HEALTH

This is to certify that I have examined a Sheep with ear tag number: UK 012504016926 [Virology no. SH855], which has been used in the production of blood antiserum between 23rd October 2024 and 11th December 2024. Both the ear tag number and the animals' record show that it is of UK origin.

This animal was a breeding Ewe which became surplus to requirements. In my opinion at the time of clinical examination, the ewe was in good health and showed no clinical signs of infectious disease.

Alex McSloy MA VetMB DipACVIM PhD MRCVS Named Veterinary Surgeon

Date signed: 09 DEC 24

Alex McSloy
Named Veterinary Surgeons (NVS) Group
The Royal Veterinary College, Royal College Street, London NW1 0TU
Tel: +44 (0)1707 666333, E-mail: amcsloy@rvc.ac.uk





Alex McSloy Named Veterinary Surgeon Royal Veterinary College Royal College Street LONDON NW1 0TU

VETERINARY CERTIFICATE OF ANIMAL HEALTH

This is to certify that I have examined a Sheep with ear tag number: UK 011770501934 [Virology no. SH856], which has been used in the production of blood antiserum between 23rd October 2024 and 11th December 2024. Both the ear tag number and the animals' record show that it is of UK origin.

This animal was a breeding Ewe which became surplus to requirements. In my opinion at the time of clinical examination, the ewe was in good health and showed no clinical signs of infectious disease.

Alex McSloy MA VetMB DipACVIM PhD MRCVS Named Veterinary Surgeon

Date signed: 09 DEC 24

Alex McSloy
Named Veterinary Surgeons (NVS) Group
The Royal Veterinary College, Royal College Street, London NW1 0TU
Tel: +44 (0)1707 666333, E-mail: amcsloy@rvc.ac.uk





Alex McSloy Named Veterinary Surgeon Royal Veterinary College Royal College Street LONDON NW1 0TU

VETERINARY CERTIFICATE OF ANIMAL HEALTH

This is to certify that I have examined a Sheep with ear tag number: UK 011770501930 [Virology no. SH857], which has been used in the production of blood antiserum between 23rd October 2024 and 11th December 2024. Both the ear tag number and the animals' record show that it is of UK origin.

This animal was a breeding Ewe which became surplus to requirements. In my opinion at the time of clinical examination, the ewe was in good health and showed no clinical signs of infectious disease,

Alex McSloy MA VetMB DipACVIM PhD MRCVS Named Veterinary Surgeon

Date signed: 09 DEC 24

Alex McSloy
Named Veterinary Surgeons (NVS) Group
The Royal Veterinary College, Royal College Street, London NW1 0TU
Tel: +44 (0)1707 666333, E-mail: amesloy@rvc.ac.uk