

Influenza Reagent
Influenza Anti A/Brisbane/59/2007 (IVR 148)(H1N1) HA serum
NIBSC code: 10/120
Instructions for use
(Version 2.0, Dated 01/09/2025)

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1. INTENDED USE

Influenza antiserum reagent 10/120 is prepared for single radial diffusion assay of A/Brisbane/59/2007-like antigens using an appropriate NIBSC antigen reagent.

The antiserum reagent was prepared in sheep 516 and 517 to the purified HA of IVR148. The HA antigen was extracted from purified virus by treatment with bromelain and purified by sedimentation on sucrose gradients (Brand, CN and Skehel, JJ, Nature, New Biology, 1972, 238, 145-147.

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 immunization schedule for both sheep was as follows: One dose of approximately 50 μg IVR 148 HA with Freund's Complete Adjuvant (FCA) was given intramuscularly, followed two weeks later with a 10 microgram dose of IVR 148 HA including Freund's Incomplete Adjuvant (FIA), two further 10 microgram doses of HA including FIA were given at weekly intervals, followed two weeks later by a further 10 microgram dose. Seven weeks after the initial immunization, sera were collected and sodium azide (0.05% w/v) was added.

The sera were then pooled. For the inactivation of FMDV the antiserum was treated by maintenance of pH 5.5 (or lower) for at least 30 minutes followed by restoration of the original pH. It was then diluted 1:3 with PBS buffer containing sodium azide (0.05% w/v) and filled into vials in 2ml volumes.

5. STORAGE

+2-8°C

Please note because of the inherent stability of lyophilized material, NIBSC may ship these materials at ambient temperature.

6. DIRECTIONS FOR OPENING

Vials have a 'flip-up' circular cap. Either on the cap or the collar of the vial, there is an indication of the point at which to lever off the cap. This exposes an area of the stopper through which reconstitution and withdrawal of the preparation can be made using a hypodermic needle and syringe. If use of a pipette is preferred, then fully remove the metal collar using, for example,

forceps, taking care to avoid cuts by wearing appropriate gloves. Remove the stopper for access. Care should be taken to prevent loss of the contents.

7. USE OF MATERIAL

____For the assay of antigens containing 20-50 micrograms of HA activity in 1ml, approximately 15µl of the undiluted Reagent should be added to 1ml agarose. It may be necessary to change the antiserum concentrations according to local laboratory conditions.

Antiserum Reagent 10/120 should be used according to the method described by Wood, JM, Schild, GC, Newman, RW and Seagroatt, VA. Journal of Biological Standardisation, 1977, 5, 2

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.Reference materials are held at NIBSC within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label.

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

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



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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: Not applicable or not classified

(EC) No 1272/2008: Not applicable or not classified		
Physical and Chemical properties		
Physical	Corrosive:	No
appearance: Liquid		
Stable:	Oxidising:	No
Yes	_	
Hygroscopic:	Irritant:	No
No		
Flammable:	Handling:	See caution, Section 2
No		
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: Seek medical advice		
Ingestion: Seek 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		
an appropriate disinfectant followed by water.		
Absorbent materials used to treat spillage should be treated as		

15. LIABILITY AND LOSS

biological waste.

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.

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: 2g

Toxicity Statement: Non toxic

Veterinary certificate or other statement if applicable.

Attached: Yes SH516 SH516a SH517 SH517a

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





Kath Hardcastle Named Veterinary Surgeon Royal Veterinary College Royal College Street LONDON NW1 0TU

VETERINARY CERTIFICATE OF ANIMAL HEALTH

This is to certify that I have today examined a Sheep with ear tag number: UK 265 852 047 [Virology no. SH516], which has been used in the production of blood antiserum between 24th February 2010 and 14th April 2010. 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.

Kath Hardcastle BVetMed Cert LAS MRCVS

Named Veterinary Surgeon

Kath Hardcastle BVetMed Cert LAS MRCVS
Office: 020 7468 5333 Fax: 020 7468 5378 Mobile: 07809199998
Email: <khardcastle@rvc.ac.uk>





Kath Hardcastle Named Veterinary Surgeon Royal Veterinary College Royal College Street LONDON NW1 0TU

VETERINARY CERTIFICATE OF ANIMAL HEALTH

This is to certify that I have today examined a Sheep with ear tag number: UK 265 852 058 [Virology no. SH517], which has been used in the production of blood antiserum between 24th February 2010 and 14th April 2010. 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.

Kath Hardcastle BVetMed Cert LAS MRCVS

Named Veterinary Surgeon

Kath Hardcastle BVetMed Cert LAS MRCVS
Office: 020 7468 5333 Fax: 020 7468 5378 Mobile: 07809199998
Email: khardcastle@rvc.ac.uk