

Influenza Reagent
Influenza Anti B Neuraminidase Serum
NIBSC code: 05/252
Instructions for use
(Version 4.0, Dated 11/08/2016)

1. INTENDED USE

Influenza antiserum reagent 05/252 is prepared in sheep for neuraminidase 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 a sheep (SH 463) to the purified NA of B/Malaysia/2506/2004 virus. The NA antigen was extracted from purified virus by the method of Noll, H., Aoyagi, T. and Orlando, J. (Virology, 1962, 18, 154). One dose of approximately 25 micrograms of NA with Freund's complete adjuvant (FCA) was given intramuscularly. A further dose of 10 micrograms, with Freund's incomplete adjuvant (FIA), was given after two weeks. This was followed by four further doses of 10 micrograms with FIA, at weekly intervals.

Seven weeks after the initial immunization, serum was collected and sodium azide (0.05% w/v) was added. The serum was diluted 1:3 with PBS buffer containing sodium azide (0.05% w/v) and filled into vials in 2ml volumes. The mean weight of 20 vials test weighed was 2.06g with a coefficient of variation of 0.24%.

NB. There was an error on the original vial label, which has subsequently been over-labeled with white tape, followed by a new label carrying the correct information.

5. STORAGE

The recommended storage temperature is +2-8°C.

However, if it is intended to store the reagents 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.

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

No attempt should be made to weigh out any portion of the material

Reagent 05/252 should be used in tests of neuraminidase identity, such as the neuraminidase inhibition (NI) test of Aymard-Henry M, Coleman

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MT, Dowdle WR, Laver WG, Schild GC and Webster RG. Bull WHO, 1973, 48, 199-202. Although Reagent 05/252 does not have a unitage, an indication of a likely homologous NI titre is given in the appendix. For heterologous influenza B viruses, variously lower NI titres may be expected.

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 in section 5.

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: Not applicable or not classified

Physical and Chemical properties			
Physical appearance: Liquid	Corrosive:	No	
appearance: Liquid			



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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: Avoid inhalation				
Effects of ingestion: Avoid ingestion				
Effects of skin absorption: Avoid contact with skin				
Suggested First Aid				
Inhalation: Se	ek medical advic	е		
Ingestion: Se	ek medical advic	e		
Contact with eyes: W medical advice	ash with copious	amounts of water. Seek		
medical advice	ash with copious ash thoroughly w			
medical advice Contact with skin: W	ash thoroughly w			

15. LIABILITY AND LOSS

biological waste.

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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 freeze-drying.

Net weight: 2g

Toxicity Statement: Non-toxic

Veterinary certificate or other statement if applicable.

Attached: Yes SH463

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Veterinary Certificate

This is to certify that Sheep no. 5120 [Virology No. SH 463] was used for the production of blood antiserum between 3rd March 2006 and 20th April 2006.

This sheep was a ewe that was surplus to breeding requirements, in overt good health, and showed no signs of clinical disease.

The ear tag identifying the animal indicated that it was of UK origin.

h M Hull 26 M April 2006 R.M. Hull

BVSc, PhD, MRCVS

Named Veterinary Surgeon

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