



Influenza Reagent Influenza Antiserum A/turkey/Turkey/1/2005 (H5N1) NIBSC code: 06/192 Instructions for use (Version 3.0, Dated 25/08/2011)

1. INTENDED USE

Influenza antiserum reagent 06/192 is prepared in sheep for single radial diffusion assay of A/turkey/Turkey/1/05 antigens. An appropriate NIBSC antigen reagent should be included in each assay.

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 SH465 and SH466 to the purified HA of NIBRG-23. The HA antigen was extracted from inactivated and 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). The immunization schedule for SH465 and SH466 was as follows: One dose of approximately 20µg of HA with Freund's complete adjuvant (FCA) was given intramuscularly, followed two weeks later with a 10µg dose in the presence of Freund's incomplete adjuvant (FIA), four further 10µg doses including FIA were given at weekly intervals. Seven weeks after the initial immunization, serum was collected and sodium azide (0.05% w/v) was added.

The sera were pooled and diluted 1:2.7 with phosphate buffered saline containing sodium azide (0.05% w/v) and filled into vials in 2ml volumes

5. STORAGE

+2-8⁰C

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 20-50µg of HA activity in 1ml, approximately 20µl of the undiluted Reagent should be added to 1ml of agarose. Antigens of lower concentration (5-20µg HA/ml) are assayed by adding approximately 10µl of the Reagent to 1ml of agarose. It may be necessary to change the antiserum concentration according to local laboratory conditions.

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Potters Bar, Hertfordshire, EN6 3QG. T +44 (0)1707 641000, nibsc.org WHO International Laboratory for Biological Standards, UK Official Medicines Control Laboratory Antiserum Reagent 06/192 should be used according to the method described by Wood JM, Schild GC, Newman RW and Seagroatt VA. Journal of Biological Standardisation, 1977, 5, 237-247.

8. STABILITY

Reference materials are held at NIBSC within assured, temperaturecontrolled storage facilities. Reference Materials should be stored on receipt as indicated on the label, please also see attached storage information sheet.

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

9. REFERENCES

N/A

10. ACKNOWLEDGEMENTS

This reagent was produced on behalf of the FLUSECURE project with funding from the EU.

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: straw coloured liquid		Corrosive:	No	
Stable:	Yes	Oxidising:	No	
Hygroscopic:	No	Irritant:	No	
Flammable:	No	Handling:See	caution, Section 2	
Other (specify):	Contains sheep serum and sodium azide			

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 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

biological waste.

15. LIABILITY AND LOSS

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 freeze-drying. Net weight: 2g

Toxicity Statement: Non-toxic

Veterinary certificate or other statement if applicable.

Attached: Yes SH465 and SH466 plus Storage Information sheet.

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STORAGE OF REAGENT 06/192

NIBSC has prepared a number of reagents for single radial diffusion assay of influenza subtypes of pandemic potential.

Since it is not known when these reagents may be required, it is desirable that they have an indefinite shelf life and they are stored at NIBSC in colder conditions than reagents prepared for the assay of epidemic strains. Therefore the recommended storage temperature marked on the label for reagent 06/192 is -20° C.

However it is assumed that a customer ordering this reagent, will use it within a short period similar to that for a conventional reagent. Consequently, this reagent is not normally shipped frozen and <u>the recommended</u> <u>storage temperature is $+4^{\circ}C$.</u>





THE ROYAL VETERINARY COLLEGE University of London

Veterinary Certificate

This is to confirm that I examined the following two sheep on 15 November 2006 at Boltons Park Farm, immediately before they were euthanased.

UK241512 5115 (SH465)

UK241512 5123 (SH466)

In my opinion, at the time of examination, both animals were healthy and free from any signs of clinical disease.

1 M

John Fishwick MA VetMB DCHP MRCVS 21 December 2006

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