

WHO International Standard Influenza Anti -A/Brazil/11/78 (H1N1) HA serum NIBSC code: 79/516 Instructions for use (Version 3.0, Dated 26/03/2008)

1. INTENDED USE

Influenza antiserum reagent 79/516 is prepared in a goat for the single radial diffusion assay of A/Brazil/11/78 antigens.

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

4. CONTENTS

Country of origin of biological material: United Kingdom.

The antiserum was prepared in goat G595 to the purified HA of A/Brazil/11/78 (H1N1) virus. The HA antigen was extracted from purified virus by treatment with bromelain and purified by sedimentation on sucrose gradients (Brand, C N and Skehel JJ, Nature, New Biology, 1972, 238, 145-147). One dose of approximately 25 micrograms of HA with Freund's complete adjuvant (FCA) was given intramuscularly, followed two weeks later by 2 further doses of 25 micrograms of HA with FCA at 2 week intervals.

Five weeks after the initial immunization, serum was collected, diluted 1:20 with PBS buffer containing sodium azide (0.05% w/v) and processed for freeze-drying in 1ml volumes. The mean weight of 77 ampoules test weighed was 1.003g (±0.12%).

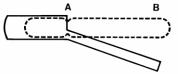
5. STORAGE

-20°C

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

6. DIRECTIONS FOR OPENING

Tap the ampoule gently to collect the material at the bottom (labelled) end. Ensure ampoule is scored all round at the narrow part of the neck, with a diamond or tungsten carbide tipped glass knife file or other suitable implement before attempting to open. Place the ampoule in the ampoule opener, positioning the score at position 'A'; shown in the diagram below. Surround the ampoule with cloth or layers of tissue paper. Grip the ampoule and holder in the hand and squeeze at point 'B'. The ampoule will snap open. Take care to avoid cuts and projectile glass fragments that enter eyes. Take care that no material is lost from the ampoule and that no glass falls into the ampoule.



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Side view of ampoule opening device containing an ampoule positioned ready to open. 'A' is the score mark and 'B' the point of applied pressure.

7. USE OF MATERIAL

No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution

For the assay of virus antigens containing 20-50 micrograms of HA activity in 1ml, 42µl of the undiluted Reagent should be added to 1ml agarose. Antigens of lower concentration (5-20 micrograms HA/ml) are assayed, by adding 21µl of the Reagent to 1ml agarose. Antiserum Reagent 79/516 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.

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

9. REFERENCES

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	Corrosive:	No	
appearance:			
Powder			
Stable:	Oxidising:	No	
Yes	_		
Hygroscopic:	Irritant:	No	
No			



Medicines & Healthcare products Regulatory Agency



Flammable:	Handling:	See caution, Section 2		
No				
Other (specify): C	contains sheep se	erum and sodium azide (0.05%)		
Toxicological properties				
Effects of inhalation: Avoid inhalation				
Effects of ingestion: Avoid ingestion				
Effects of skin absorption: Avoid contact				
Suggested First Aid				
Inhalation: S	eek medical adv	ice		
Ingestion: Seek medical advice				
Contact with eyes: V	Vash with copiou	s amounts of water. Seek		
medical advice				
Contact with skin: V	Vash thoroughly	with water.		
Action on Spillage and Method of Disposal				
material wetted with a appropriate disinfecta	n appropriate dis	e taken up with absorbent sinfectant. Rinse area with an ater.		

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: 1g
Toxicity Statement: Non-toxic
Veterinary certificate or other statement if applicable

Veterinary certificate or other statement if applicable. Attached: No

17. CERTIFICATE OF ANALYSIS NIBSC does not provide a Certificate of Analysis for WHO Biological Reference Materials because they are internationally recognised primary reference materials fully described in the instructions for use. The reference materials are established according to the WHO Recommendations for the preparation, characterization and establishment of international and other biological reference standards http://www.who.int/bloodproducts/publications/TRS932Annex2_Inter_bi olefstandardsrev2004.pdf (revised 2004). They are officially endorsed by the WHO Expert Committee on Biological Standardization (ECBS) based on the report of the international collaborative study which established their suitability for the intended use.

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