

### Influenza Reagent Influenza anti -A/Equine/Miami/63 (H3N8) HA serum NIBSC code: 84/677 Instructions for use (Version 4.0, Dated 26/03/2008)

#### 1. INTENDED USE

Influenza antiserum reagent 84/677 is prepared in a goat (GH15) for the single radial diffusion assay of A/Equine/Miami/63 antigens.

#### 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.

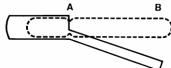
This antiserum was prepare in goat (GH15) to the purified HA of A/Equine/Miami/63 virus. The HA antigen was extracted from purified virus by treatment with bromelain and purified by sedimentation on sucrose gradients (Brand C N and Skehel, J J, Nature, New Biology, 1972, 238, 145-147). The goat was inoculated intramuscularly with two doses of 25 micrograms f purified HA with Freund's complete adjutant at two week intervals. Six weeks after the initial immunization, serum was collected, diluted 1:8 with phosphate-buffered saline and processed for freeze-drying in 1 ml volumes as described by Campbell P, Journal of Biological Standardization, 1974, 2, 249-267 The mean weight of 33 ampoules, test weighed was 1.004g with coefficient of variation of 0.15%.

STORAGE

Please note: because of the inherent stability of Ivophilized 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) 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.



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 material

Reconstitute the total contents of one ampoule of Reagent with 1 ml of distilled water. Allow to stand for a minimum of 5 minutes before use to allow for complete solution of the freeze-dried material. For the assay of virus antigens containing 20-50 micrograms of HA activity in 1ml, 17 µl of the Reagent solution should be added to 1 ml of molten agarose. Antigens of lower concentration 5-20 micrograms HA/ml) are assayed by adding 8.5 µl of the reagent solution to 1 ml agarose. These antiserum concentrations may vary from laboratory to laboratory.

Antiserum Reagent 84/677 should be used according to the method described by Wood, J M, Schild, G C , Newman R W and Seagraott, V.A., Journal of Biological Standardization, 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

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: White powder	Corrosive:	No	
Stable: Yes	Oxidising:	No	
Hygroscopic: No	Irritant:	No	

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Flammable: No	Handling:	See caution, Section 2		
Other (specify): Contains sheep serum and sodium azide (0.05%)				
Toxicological properties				
Effects of inhalation:	Avoid in	Avoid inhalation		
Effects of ingestion: Avoid ingestion				
Effects of skin absorption: 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: W	ash thoroughly v	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 freeze-drying.

Toxicity Statement: Non toxic

Veterinary certificate or other statement if applicable.

Attached: No

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