

WHO International Standard
International Standard for antibody to influenza H5N1 virus
NIBSC code: 07/150
Instructions for use
(Version 1.0, Dated 23/04/2009)

1. INTENDED USE

This material has been prepared from plasma of human recipients of A/Vietnam/1194/2004 (H5N1) (NIBRG-14) vaccine. This is the first International Standard for antibody to influenza H5N1 virus . This material will serve as the primary biological standard for antibodies to A/Vietnam/2004 H5N1 Clade 1 virus . In the collaborative study in which this material was calibrated in International Units, it was shown that this material is not suitable as a biological standard for antibodies to H5N1 viruses from other genetic clades.

2. CAUTION

This preparation is not for administration to humans or animals in the human food chain.

The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. 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

This material has been assigned a unitage of 1000 International Units per ampoule following an International Collaborative Study to evaluate this materia

Uncertainty: the assigned unitage does not carry an uncertainty associated with its calibration. The uncertainty may therefore be considered to be the variance of the ampoule content and was determined to be \pm /- 0.28%.I

4. CONTENTS

Country of origin of biological material: Plasma from P.R. China and Hungary; further processing in the United Kingdom. The plasma is negative for Hepatitis B virus antigen, antibody to human immunodeficiency viruses 1 and 2 and hepatitis C nucleic acid.

Each ampoule contains a freeze-dried residue comprising, under an atmosphere of nitrogen:

Human plasma from recipients of A/Vietnam/2004 H5N1 Clade 1 virus vaccine.

5. STORAGE

Store ampoules at -20° until use

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

6. DIRECTIONS FOR OPENING

DIN ampoules have an 'easy-open' coloured stress point, where the narrow ampoule stem joins the wider ampoule body. Various types of ampoule breaker are available commercially. To open the ampoule, tap the ampoule gently to collect material at the bottom (labelled) end and follow manufactures instructions provided with the ampoule breaker.

7. USE OF MATERIAL

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

The contents of each ampoule should be reconstituted in 1ml of distilled water. Once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use.

8. STABILITY

Reference materials are held at NIBSC within assured, temperature-controlled 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 available at present.

10. ACKNOWLEDGEMENTS

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: Freeze dried	Corrosive:	No	
Stable: Yes	Oxidising:	No	
Hygroscopic: No	Irritant:	No	
Flammable: No	Handling:	See caution, Section 2	
Other (specify):	Contains material of human origin		
Toxicological properties			
Effects of inhalation:	Not esta	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: medical advice	Wash with copious amounts of water. Seek	
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 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.

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_biolefstandardsrev2004.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.



UK Official Medicines Control Laboratory