Medicines & Healthcare products Regulatory Agency



It is recommended that Antigen Reagent 07/112 and test A/turkey/Turkey/1/05 virus antigens should be treated with Zwittergent 3-14 detergent (Calbiochem-Behring, La Jolla, CA, USA) before single-radial-diffusion assay. Suitable incubation conditions are as follows:

180µl of antigen is diluted in 270µl of phosphate buffered saline, added to 50 µl of 10% (w/v) Zwittergent detergent and incubated in covered containers for 30 minutes at room temperature (20-250 C). Dilutions of detergent treated antigens are then added to wells in single-radial-diffusion immunoplates and incubated at 20-250 C.

Antigen Reagent 07/112 should be used to assay A/turkey/Turkey/1/05 antigens using an NIBSC antiserum reagent.

# 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. Users of the material wishing to refer to the declared ampoule content for use in quantitative or semi-quantitative assay methods should note that the stated content of the material is based on a small collaborative study involving WHO Essential Regulatory Laboratories (ERLs) or Official Medicines Control Laboratories (OMCLs). Studies of recovery and stability of similar antigen preparations indicate that that recovery after ampouling is likely to be close to quantitative, and that no significant loss of content would be expected during storage over at least a 10 year period.

#### 9. REFERENCES

Not applicable

# 10. ACKNOWLEDGEMENTS

Not applicable

#### 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

Influenza Reagent Influenza Antigen A/turkey/Turkey/1/2005 (H5N1) NIBSC code: 07/112 Instructions for use (Version 2.0, Dated 04/03/2008)

#### 1. INTENDED USE

Influenza antigen reagent 07/112 is prepared for single radial diffusion assay of A/turkey/Turkey/1/05 antigens using an appropriate NIBSC antiserum reagent.

#### 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

Antigen reagent 07/112 contains 80µg haemagglutinin/ml

#### 4. CONTENTS

Country of origin of biological material: United Kingdom.

Antigen reagent 07/112 is prepared from formaldehyde inactivated, partially purified A/turkey/Turkey/1/05 virus (NIBRG-23), which was suspended in PBSA buffer containing 1% (w/v) sucrose and processed for freeze-drying in 1ml volumes as described by Campbell, P.J, Journal of Biological Standardization, 1974, 2, 249-267.

The reagent has been inactivated following validated procedures used to produce human influenza vaccine that is registered in the EU. This inactivated reagent has been shown to be free from residual infectious virus by testing according to the European Pharmacopeia Compendial Assay (monograph 0158).

# 5. STORAGE

Unopened ampoules should be store at -20oC but storage of reconstituted reagent is not recommended.

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.

For all practical purposes each ampoule contains the same quantity of the substances listed above. Reconstitute the total contents of one ampoule of Reagent with 1ml of distilled water. Allow to stand for a minimum of 5 minutes before use to allow for complete solution of freeze-dried material. Antigen Reagent 07/112 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, with the following modification:

National Institute for Biological Standards and Control, Potters Bar, Hertfordshire, EN6 3QG. T +44 (0)1707 641000, nibsc.org WHO International Laboratory for Biological Standards, UK Official Medicines Control Laboratory



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 powder			Corrosive:	No	
Stable:	Yes		Oxidising:	No	
Hygroscopic:	No		Irritant:	No	
Flammable:	No		Handling:Se	e caution, Section 2	
Other (specify): Contains inactivated influenza virus					
Toxicological properties					
Effects of inhalation:		Not	ot established, avoid inhalation		
Effects of ingestion:		Not	Not established, avoid ingestion		
Effects of skin absorption:		Not	Not established, avoid contact with skin		
Suggested First Aid					
Inhalation:	Seek medical advice				
Ingestion:	ngestion: 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 wetted with an appro disinfectant followed Absorbent materials	opriate d by wate	isinfec r.	tant. Rinse are	ea with an appropriate	

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: 0.1g				
Toxicity Statement: Toxicity not assessed				
Veterinary certificate or other statement if applicable.				
Attached: No				

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