

# Influenza Reagent Influenza Anti A/Hong Kong/1073/99 (N2) NA Serum (Sheep SH395 & SH396)

NIBSC code: 10/214 Instructions for use (Version 2.0, Dated 22/08/2011)

#### 1. INTENDED USE

Influenza antiserum reagent 10/214 is prepared in sheep for neuraminidase identity tests.

#### 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 reagent was prepared in sheep SH395 & SH396 to A/Hong Kong/1073/99 virus. The antigen was extracted from 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 immunisation schedule for sheep SH395 and sheep SH396 was as follows: One dose of approximately 50 micrograms of virus protein with Freund's Complete Adjuvant (FCA) was given intramuscularly, followed two weeks later with an approximate 10 microgram dose of virus protein with FCA, five further approximate 10 microgram doses of virus protein with FCA were given at weekly intervals to SH395 and six further approximate 10 microgram doses of virus protein with FCA were given at weekly intervals to SH396 . The serum was collected and sodium azide (0.05% w/v) was added.

The serum was then pooled and treated by maintenance of pH5.49 for 40 minutes followed by restoration of the original pH and filled into vials in 1ml volumes.

## 5. STORAGE

+2-8°C

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

Reagent 10/214 should be used in tests of neuraminidase identity, such as the neuraminidase inhibition (NI) test of Aymard-Henry M, Coleman MT, Dowdle WR, Laver WG, Schild GC and Webster RG. Bull WHO, 1973, 48, 199-202.

Although reagent 10/214 is not assigned a unitage, it is issued before final testing has been completed, NI test titres will be advised as soon as testing is complete.

#### 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, 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

No 1272/2008. Not applicable of 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	shee	p serum and so	odium azide	
Toxicological properties					
Effects of inhalation: No		Not	ot established, avoid inhalation		
Effects of ingestion:		Not	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: 1g

Toxicity Statement: Non-toxic

Veterinary certificate or other statement if applicable.

**Attached:** Yes SH395 & SH396 FMD Inactivation Certificate and storage information sheet.







## Foot and Mouth Disease Virus Inactivation Certificate

This is to certify that serum collected from Sheep no. Y28 [Virology no.SH395] and Sheep no. R109 [Virology no.SH396] have been treated by an APHIS approved method for inactivation of Foot and Mouth Disease Virus.

The treatment method used was maintenance of pH5.5 or lower for a minimum of 40 minutes.

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## STORAGE OF REAGENT 10/214

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 10/214 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  $\underline{\text{the recommended}}$  storage temperature is  $+4^{\circ}\text{C}$ .