



**Influenza Reagent**  
**Influenza Virus infectious NIBRG-23**  
**NIBSC code: 08/156**  
**Instructions for use**  
**(Version 1.0, Dated 30/06/2008)**

**1. INTENDED USE**

The influenza reference virus NIBRG-23 is a reassortant prepared by reverse genetics from A/turkey/Turkey/1/2005 (H5N1) virus (in which the polybasic HA cleavage site has been excised) and A/PR/8/34(H1N1) virus.

**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 laboratory's safety procedures and following advice from WHO interim biosafety risk assessment and guidelines for production and quality control of human influenza pandemic vaccines.

[http://www.who.int/biologicals/expert\\_committee/Full%20Text%20TRS941.pdf](http://www.who.int/biologicals/expert_committee/Full%20Text%20TRS941.pdf)

Such safety procedures should be consistent with BSL2 Enhanced (pandemic influenza vaccine) and may include:

- Use of negative pressure biosafety cabinet when possible
- Use of HEPA filtration of air prior to exhaust
- Use of positive pressure with negative pressure in-line sinks
- Suitable cleaning and decontamination procedures
- Full body protective clothing
- Use of respiratory protection if primary containment cannot be used
- Availability of antiviral prophylaxis
- Use of seasonal influenza vaccine
- No contact with avian or porcine species with 14 days

**3. UNITAGE**

No unitage is assigned to this material

**4. CONTENTS**

Country of origin of biological material: United Kingdom.  
Each ampoule contains 250µl (nominal) of infectious influenza virus as allantoic fluid from SPF embryonated hen's eggs.

**5. STORAGE**

Store in the dark at -70°C or below

**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 screw cap; an internal stopper may also be present. The cap should be removed by turning anti-clockwise. Care should be taken to prevent loss of the contents. Please note: If a stopper is present on removal of the cap, the stopper should remain in the vial or be removed with the cap.

**7. USE OF MATERIAL**

A range of dilutions (e.g. 10<sup>-3</sup> to 10<sup>-5</sup>) should be made in a suitable medium for initial cultivation.

**8. STABILITY**

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**

NA

**10. ACKNOWLEDGEMENTS**

NA

**11. FURTHER INFORMATION**

Further information can be obtained as follows:

This material: [enquiries@nibsc.org](mailto: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](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](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](mailto: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:<br>Clear liquid  | Corrosive: No   |
| Stable: Yes   | Oxidising: No   |
| Hygroscopic: No   | Irritant: No  |
| Flammable: No   | Handling: See caution, Section 2  |
| Other (specify):  | Live influenza virus with surface proteins derived from H5N1 virus. This virus is genetically modified. |
| Toxicological properties  |   |
| Effects of inhalation:  | Likelihood of influenza virus infection   |
| 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:  | 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 a virucidal agent. Rinse area with an appropriate virucidal agent followed by water.<br>Absorbent materials used to treat spillage should be treated as biologically hazardous 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](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

|   |
|---|
| <b>Country of origin for customs purposes*:</b> United Kingdom<br>* 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. |
| <b>Net weight:</b> NA   |
| <b>Toxicity Statement:</b> Non-toxic  |
| <b>Veterinary certificate or other statement</b> if applicable.   |
| <b>Attached:</b> No   |

#### Passage history of NIBRG-23

| Passage level | Lot   | Laboratory               |
|---------------|-------|--------------------------|
| V1E1          | 24580 | NIBSC, Hertfordshire, UK |
| V1E2          | 24650 | NIBSC, Hertfordshire, UK |
| V1E3          | 30060 | NIBSC, Hertfordshire, UK |