Influenza Reagent
Influenza antigen A/Texas/50/2012 (H3N2)(NYMCX-223)
NIBSC code: 13/112
Instructions for use

1. INTENDED USE
Influenza antigen reagent 13/112 is prepared for single radial diffusion assay of A/Texas/50/2012 (NYMCX-223) 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 13/112 has an estimated potency value of 74µgHA/ml.

4. CONTENTS
Country of origin of biological material: United Kingdom.
Antigen reagent 13/112 is prepared from β-propiolactone inactivated, partially purified A/Texas/50/2012 (NYMCX-223) virus which was suspended in PBSA buffer containing 1% (w/v) sucrose and processed for freeze drying in 1ml volumes as described in:

5. STORAGE
-20°C
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 manufacturer’s 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 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 13/112 should be used according to the method described by Wood, JM, Schild, GC, Newman RW and Seagrott, VA, journal of Biological Standardisation, 1977, 5, 237-247, with the following modification:
It is recommended that antigen reagent 13/112 and test A/Texas/50/2012 (NYMCX-223) virus antigens should be treated with Zwittergent 3-14 detergent (Calbiochem-Behring, La Jolla, CA, USA) before single single radial diffusion assay. Suitable incubation conditions are as follows:

450 microlitres of antigen are added to 50 microlitres of 10% (w/v) Zwittergent detergent and incubated in covered containers for 30 minutes at room temperature (20-25°C). Dilutions of detergent treated antigens are then added to wells in single radial diffusion immunoplates and incubated at 20-25°C.

Reagent 13/112 should be used to assay A/Texas/50/2012 (NYMCX-223) antigens using an appropriate NIBSC antiserum reagent.

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
N/A

10. ACKNOWLEDGEMENTS
N/A

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/cctm/
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

<table>
<thead>
<tr>
<th>Physical and Chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical appearance: White powder</td>
</tr>
<tr>
<td>Corrosive: No</td>
</tr>
<tr>
<td>Stable: Yes</td>
</tr>
<tr>
<td>Oxidising: No</td>
</tr>
<tr>
<td>Hygroscopic: No</td>
</tr>
<tr>
<td>Irritant: No</td>
</tr>
<tr>
<td>Flammable: No</td>
</tr>
<tr>
<td>Handling: See caution, Section 2</td>
</tr>
<tr>
<td>Other (specify): Contains inactivated influenza virus</td>
</tr>
</tbody>
</table>

Toxicological properties

| Effects of inhalation: 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: 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
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16. INFORMATION FOR CUSTOMS USE ONLY

| Country of origin for customs purposes*: United Kingdom |
| Net weight: 1g                                           |
| Toxicity Statement: Non-toxic                           |
| Veterinary certificate or other statement if applicable. |
| Attached: No                                            |