Influenza Reagent
Influenza Virus Infectious NIBRG-375
NIBSC code: 17/136
Instructions for use
(Version 1.0, Dated 20/12/2017)

1. INTENDED USE
The influenza reference virus NIBRG-375 is a reassortant prepared by
reverse genetics techniques using A/Guangdong/17SF003/2016 (H7N9)
virus and A/PR/8/34 (H1N1) virus. The known passage history of 17/136
is attached.

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 handled only in appropriate
containment facilities by fully trained and competent staff in
accordance with your national as well as international safety
guidelines. Please see link for 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%20TRS
941.pdf

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
d thawable fluid from 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. 10⁻³ to 10⁻⁵) 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
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.

<table>
<thead>
<tr>
<th>Physical and Chemical properties</th>
<th>Corrosive: No</th>
<th>Oxidising: No</th>
<th>Irritant: No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear liquid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stable:</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hygroscopic:</td>
<td>No</td>
<td></td>
<td></td>
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<tr>
<td>Flammable:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify): Infectious influenza virus.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicological properties</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Effects of inhalation:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effects of ingestion:</td>
<td>Not established</td>
<td>avoid ingestion</td>
<td></td>
</tr>
<tr>
<td>Effects of skin absorption:</td>
<td>Not established</td>
<td>avoid contact with skin</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Suggested First Aid</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Inhalation:</td>
<td>Seek medical advice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ingestion:</td>
<td>Seek medical advice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact with eyes:</td>
<td>Wash with copious amounts of water. Seek medical advice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact with skin:</td>
<td>To wash thoroughly with water.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Action on Spillage and Method of Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Absorbent materials used to treat spillage should be treated as biologically hazardous waste.</td>
</tr>
</tbody>
</table>

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/products/ordering.aspx)

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
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: NA
| Toxicity Statement: Non-toxic
| Veterinary certificate or other statement if applicable. Attached: No

Net weight: NA
Toxicity Statement: Non-toxic
Veterinary certificate or other statement if applicable. Attached: No

Passage history of NIBRG-375

<table>
<thead>
<tr>
<th>Passage level</th>
<th>Lot</th>
<th>Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE1</td>
<td>42810</td>
<td>NIBSC, Hertfordshire, UK</td>
</tr>
<tr>
<td>VE2</td>
<td>42820</td>
<td>NIBSC, Hertfordshire, UK</td>
</tr>
</tbody>
</table>