

Influenza Reagent Influenza Virus Infectious B/Austria/1359417/2021 (B/Victoria lineage) NIBSC code: 23/228 Instructions for use (Version 1.0, Dated 26/10/2023)

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### 1. INTENDED USE

Reagent 23/228 was prepared from B/Austria/1359417/2021 (B/Victoria lineage), which was processed in  $250\mu$ I volumes as liquid stock. The known passage history of 23/228 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 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. Each ampoule contains  $250\mu I$  (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. Material type: Liquid – will be shipped according to the storage and shipping conditions of the product

### 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

Ready to use.

### 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.

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# 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

Physical and Chemical properties							
Physical appearance:	Corre	osive:	No				
clear liquid							
Stable: Yes		Oxid	ising:	No			
Hygroscopi No		Irrita	nt:	No			
c:							
Flammable: No	Handling: See caution, Section 2						
Other live influenza virus							
(specify):							
Toxicological properties							
Effects of inhalation:	lihood of influenza virus infection						
Effects of ingestion:	established, avoid ingestion						
Effects of skin	established, avoid contact with						
absorption:	skin						
Suggested First Aid							
Inhalation: Seek medical advice							
Ingestion: Seek medical advice							
Contact with Wash	with copious amounts of water. Seek						
eyes: medic	cal advice						
Contact with Wash	thoro	ughly	with w	ater.			
skin:							
Action on Spillage and Method of Disposal							
Spillage of ampoule	conte	ents s	should	be taken up with			

absorbent material wetted with an appropriate virucidal agent. Rinse area with an appropriate virucidal agent 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: 0.25g per vial				
Toxicity Statement: Non-toxic				
Veterinary certificate or other statement if applicable.				
Attached: No				

### Passage history of B/Austria/1359417/2021 (B/Victoria lineage)

Cumulative number of passages	Passage numbers at each stage	Lot	Laboratory
E3	E3	unknown	unknown
E5	E3/E2	unknown	FCI, UK
E6	E3/E2/E1	46680*	MHRA, UK

\* The HA titre of this virus using 0.7% turkey red blood cells is 256. The infectious titre is unknown.

Sterility: No visible contamination was detected in a variety of media (tryptone soya broth, thioglycolate broth, Sabouraud's broth and blood agar plates) after 14 days incubation.

The HA and NA sequence of this virus are available at GISAID with the accession number EPI\_ISL\_ 18420061. Sanger analysis suggests this product contains a non-synonymous substitution in the HA gene which results in a glycine to arginine change at amino acid 141 (G141R, mature HA numbering). Sanger analysis suggests this product also contains a non-synonymous mixed population in the NA gene which results in a serine and leucine mixture at amino acid 39 (S39S/L, mature NA numbering).