

Influenza Reagent
Influenza Virus Infectious NYMC X-307
NIBSC code: 18/140
Instructions for use
(Version 3.0, Dated 31/07/2018)

1. INTENDED USE

Reagent 18/140 is prepared from NYMC X-307 (A/Singapore/INFIMH-16-0019/2016 x A/PR/8/34) H3N2 which was processed for freeze drying in 250 μ l volumes as described by Campbell, PJ, Journal of Biological Standardisation, 1974, 2,249-267. The derivation and known passage history of NYMC X-307 is attached

2. CAUTION

<u>This preparation is not for administration to humans or animals in the human food chain</u>

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 250µl (nominal) of infectious influenza virus as allantoic fluid from SPF embryonated hen's eggs.

5. STORAGE

Store in the dark at -20°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 '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

Reconstitute the contents of one ampoule of reagent with 250µl of sterile distilled water. Leave for a minimum of 5 minutes before use to allow for complete solution of freeze-dried 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

NΑ

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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

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Physical and Chemical properties			
Physical appearance: white powder	Corrosive: No		
Stable: Yes	Oxidising: No		
Hygroscopic: No	Irritant: No		
Flammable: No	Handling:See caution, Section	n 2	
Other (specify): Live influenza virus			
Toxicological properties			
Effects of inhalation:	Likelihood of influenza virus infection	lihood of influenza virus infection	
Effects of ingestion:	Not established, avoid ingestion	established, avoid ingestion	
Effects of skin absorption:	Not established, avoid contact with	established, avoid contact with skin	
Suggested First Aid			
Inhalation: Seek	alation: 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 virucidal agent. Rinse area with an			

15. LIABILITY AND LOSS

biologically hazardous waste.

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.

Absorbent materials used to treat spillage should be treated as

appropriate virucidal agent followed by water.



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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 ampoule Toxicity Statement: Non-toxic

Veterinary certificate or other statement if applicable.

Attached: No

Derivation of NYMC X-307

Passage	Lot	Laboratory
E1-E8		NYMC, New York, USA
E9	6321	NYMC, New York, USA
E10	43490	NIBSC, Hertfordshire, UK

Number of passages post mixed infection = 8

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

The HA and NA sequence of this virus is available from GISAID with the accession number EPI_ISL_315770.





Derivation of NYMC X-307

A/Singapore/INFIMH-16-0019/2016 CL2 (H3N2, 3C.2a1) with A/PR/8/34 High Yield A H3N2 Reassortant (5:3) with A/PR/8/34 M, PB1, PB2, PA, and NP genes and A/Singapore/INFIMH-16-0019/2016 HA, NA, and NS genes

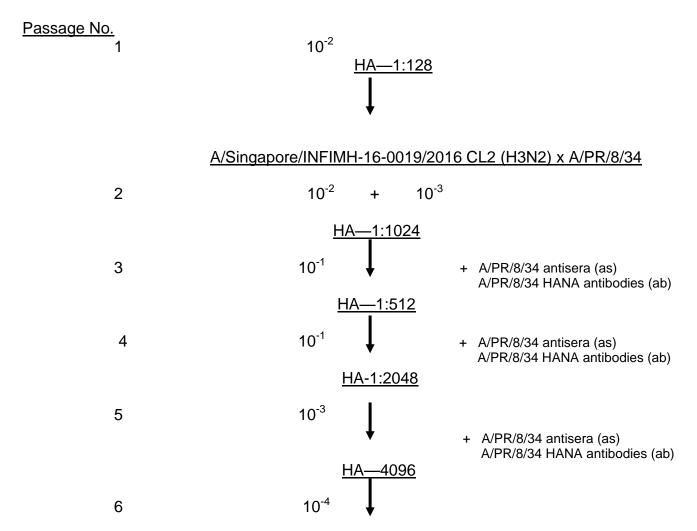
Exper. # 4809

A/Singapore/INFIMH-16-0019/2016 CL2

ID CDC#3000482555

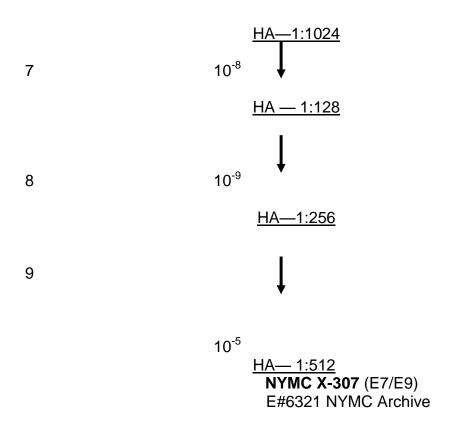
E5/E2 (10/23/17) HA 1:128

Passages at New York Medical College



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The HA yield was shown to be 3.5 ug/ml allantoic fluid by UPLC analysis. HA and NA serological identification A/Singapore/INFIMH-16-0019/2016 by HI and NI tests pending.

HA, NA and NS genes were identified as A/Singapore/INFIMH-16-0019/2016 by RT-PCR/RFLP gene analysis. PB1, PB2, PA, M, NS and NP genes were identified as A/PR/8/34 by RT-PCR/RFLP analysis.

SPF eggs were used for all reassortant passages.

Virus seed was shown to be sterile. Sterility testing was performed by streaking the sample on blood agar plates and incubating for 48 hours at 37 °C.