

Influenza Reagent
Influenza virus infectious IVR-148
NIBSC code: 08/300
Instructions for use
(Version 1.0, Dated 30/04/2009)

1. INTENDED USE

Reagent 08/300 is prepared from IVR-148 (A/Brisbane/59/2007 (H1N1)x A/Texas/1/77 (H3N2) hgr) which was processed for freeze drying in 250µl volumes as described by Campbell, PJ, Journal of Biological Standardisation, 1974, 2,249-267. The known passage history of IVR-148 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 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

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 manufactures instructions provided with the ampoule breaker.

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 are held at NIBSC within assured, temperaturecontrolled 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

9. REFERENCES

NΑ

10. ACKNOWLEDGEMENTS

NA

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

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

No 1272/2008: Not applicable or not classified					
Physical and Chemical properties					
Physical appearance: White powder		Corrosive:	No		
Stable:			Oxidising:	No	
Hygroscopic:	No		Irritant:	No	
Flammable: No		Handling:See caution, Section 2			
Other (specify):					
Toxicological properties					
Effects of inhalation: Likel		elihood of influenza virus infection			
Effects of ingestion: No		Not (ot established, avoid ingestion		
Effects of skin absorption: No		Not (t established, avoid contact with skin		
Suggested First Aid					
Inhalation: Seek medical advice					
Ingestion: Seek medical advice					
Contact with eyes:	ontact 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 ampoule	Spillage of ampoule contents should be taken up with absorbent				

15. LIABILITY AND LOSS

biologically hazardous waste.

followed by water.

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.

material wetted with a virucidal agent. Rinse area with virucidal agent

Absorbent materials used to treat spillage should be treated as

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: NA

Toxicity Statement: Non-toxic

Veterinary certificate or other statement if applicable.

Attached: No

Derivation of IVR-148

Post mixed infection passages*	Lot	Laboratory
E- E5 (SPF)		CSL Ltd, Melbourne, Aus
E6 (SPF)	VI 1515	CSL Ltd, Melbourne, Aus
E7 (SPF)	29570	NIBSC, Hertfordshire, UK
E8 (SPF)	30830	NIBSC, Hertfordshire, UK

^{*}NB Passages in this document are counted post the mixed infection event. In the accompanying CSL derivation they are numbered to include the mixed infection event.

Pages 5 and 6, along with the information they contain, are as received from CSL Ltd.

Page 7, along with the information it contains, is as received from WHO Collaborating Centre, Melbourne.





REPORT ON THE PREPARATION AND TESTING OF:

Influenza virus Reassortant № IVR-148, SPF LOT № VI-1515 A/Brisbane/59/2007-like, (H1N1)

PREPARATION OF SPF LOT:

Preparation of SPF influenza virus IVR-148, lot VI-1515 was carried out following procedures set out in Standard Operating Procedure RDS0030, and in accordance with the Australian Good Laboratory Practice guidelines. This work was conducted in the Influenza Development department, R&D, CSL Limited.

This work was documented on Batch Process Sheets: RDB0914, RDB0939, RDB0913, RDB0916, RDB0917 and RDB0936. All Lot No. 197.

VIRUS ISOLATE FROM WHO-CC

Virus was obtained from the WHO Collaborating Centre for Reference & Research on Influenza (WHO-CC).

Virus was originally obtained locally as a clinical sample from Brisbane, Australia.

A/Brisbane/59/2007 (Type A, Subtype H1N1)

WHO-CC Storage lot:

SĹ/0707062-1

Passages prior to receipt at WHO-CC: Passages undertaken in WHO-CC:

nil E2

Derivation of A/Brisbane/59/2007:

Mixed Infection passage: A/Brisbane/59/2007 (H1N1) Wild Type Virus @ 10⁻⁵ x

A/Texas/1/77(H3N2) @ 10⁻³ HA Titre 1154

1st Antiserum passage. Inoculum @ 10⁻³ with Å/Texas/1/77 antiserum HA titre ≥1325

2nd Antiserum passage: Inoculum @ 10⁻³ with Å/Texas/1/77 antiserum HA titre 905

1st Clone passage: Inoculum @ 10⁻⁹ HA titre 422

2nd Clone passage: Inoculum @ 10⁻⁹ HA titre 1114

6th Passage: Inoculum @ 10⁻⁸ HA titre ≥1325

Preparation of SPF Lot VI-1515: Inoculum @ 10⁻⁵ mean HA titre ≥1108

Total number of passages since this virus was received from an approved laboratory = 7

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TESTING OF INFLUENZA VIRUS SPF LOT VI-1515:

Routine testing on SPF lot VI-1515 has been performed as follows:

LIMS Id. PKV-PR-08000393 (Sample No. 855137)

Sterility

Pending

QA Test Code 2572

Mycoplasma

Pending

QA Test Code 2703

Mycoplasma

Pending

QA Test Code 2705

Mycoplasma (H-Stain)

Pending

QA Test Code 1591

Haemagglutinin Identity

Pending

QA Test Code 0050

Citating

EM Appearance

QA Test Code 0072

Pending

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QA Test Code 0051

Neuraminidase Identity Pending

Egg Infectivity

Pending

QA Test Code 0052

CONCLUSION:

Pending.

Prepared by: Andrew Stalder/Prue Thomas Influenza Development, R&D, CSL Limited Thursday, 23 January 2008

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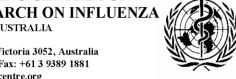
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WHO COLLABORATING CENTRE FOR REFERENCE AND RESEARCH ON INFLUENZA

MELBOURNE AUSTRALIA



45 Poplar Road, Parkville, Victoria 3052, Australia Phone: +61 3 9389 1340 Fax: +61 3 9389 1881 www.influenzacentre.org

Influenza Virus Seed Lot Identity Test Report for: CSL Limited

Sample ID No.	855137	Test Code	CSL: QA 0050
Seed Lot No.	VI-1515	Date submitted	22.1.2008
Sample name	IVR-148	WHO ID No.	0801088
	(A/BRISBANE/59/2007 reassortant)		

Test applied	Haemagglutination Inhibition Assay	Assay Date	25.1.2008
Assay	T. Mastorakos		
performed by			

	HI titre with reference antisera					
Reference antigen	A1	A2	A3	A4	НЗ	В
A/NEW CALEDONIA/20/99						
A(H1)	640	160	640	80	<40	<20
A/SOLOMON ISLANDS/3/2006						
A(H1)	160	320	320	320	<40	<20
A/MALAYSIA/100/2006 A(H1)	640	160	1280	80	<40	<20
A/BRISBANE/59/2007 A(H1)	80	160	20	160	<40	<20
A/WISCONSIN/67/2005	<20	<20	<20	<20		
A(H3)					320	< 20
B/MALAYSIA/2506/2004	<20	<20	<20	<20	<40	1280
Test antigen						
VI-1515 (IVR-148 A/Brisbane/59/2007)	160	160	40	320	<40	<20
	A1	A/NEW CALEDONIA/20/99				
Actual antisera used were raised to:	A2	A/SOLOMON ISLANDS/3/2006				
	A3	A/MALAYSIA/100/2006				
	A4	A/BRISBANE/59/2007				
	НЗ	A/WISCONSIN/67/2005				
	В	B/MALAY	SIA/2506/20	004		

Conclusion: Seed lot VI-1515 (IVR-148) has a HI reactivity pattern that is consistent with a reassortant of A/Brisbane/59/2007.

Pass	Fail	Warn
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Ian Barr Deputy Director 25.1.2007

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Potters Bar, Hertfordshire, EN6 3QG. T +44 (0)1707 641000, nibsc.org WHO International Laboratory for Biological Standards, UK Official Medicines Control Laboratory