Medicines & Healthcare products Regulatory Agency



#### International Ref. Reagent WHO Reference Reagent Low anti-EV71 Serum (Human) NIBSC code: 13/238 Instructions for use (Version 1.0, Dated 18/03/2016)

## 1. INTENDED USE

The International Reference Reagent is intended to help laboratories standardize virus neutralization methods to measure antibody levels agaisnt EV71 in human sera. These assays might be suitable for the evulation of the immunogencity of EV71 vaccines and for the assessment of the seroprevalance of human populations agaisnt EV71 virus.

#### 2. CAUTION

# This preparation is not for administration to humans or animals in the human food chain.

The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. 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

The WHO Reference Reagent 13/238 for anti-EV71 serum Low (Human) for use in standardization of virus neutralization assays has an assigned potency of 300 IU/ampoule.

It is recommended the contents of each vial be reconsistiuted in 0.5ml distilled water.

#### 4. CONTENTS

Country of origin of biological material: China.

Each ampoule contains a freeze-dried residue comprising (under an atmosphere of nitrogen) human serum containing antibodies against EV71 virus. Each ampoule should be reconsituted in 0.5ml of distilled water .

#### Preparation of the Standard

The RR (NIBSC number 13/238) was prepared from pooled human sera provided by NIFDC. The material was filled and lyophlized on 14/02/2014

# 5. STORAGE

The material has been stored at --20C since production. It is recommended that samples be used as soon after recepit was possible.t 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

No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitutionhe

WHO reference reagent 13/238 for anti-EV71 serum Low (Human) for use in standardization of virus neutralization assays. It should be used as a test reference to access assay sensitivity to ensure low levels of EV71 antibodies are detectable.

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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 It is recommended the contents of each vial be reconsistiuted in 0.5ml distilled water.

## 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 materials.

#### 9. REFERENCES

Report on the WHO collabrative study to establish the 1st International Standard for anti-EV71 serum (Human). WHO/BS/2015.2267

#### 10. ACKNOWLEDGEMENTS

Collaborative study partipants

#### 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:		Corrosive:	No	
Freeze=dried powder				
Stable:	Yes	Oxidising:	No	
Hygroscopic:	No	Irritant:	No	
Flammable:	No	Handling:See	caution, Section 2	
Other (specify):	Contains material of human origin			

#### **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 ampoule contents should be taken up with absorbent material wetted with an appropriate disinfectant. Rinse area with an appropriate disinfectant followed by water		

appropriate disinfectant 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.

#### INFORMATION FOR CUSTOMS USE ONLY 16.

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: 0.5g

Toxicity Statement: Non-toxic

Veterinary certificate or other statement if applicable. Attached: No

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