Non WHO Reference Material Bordetella pertussis, pertactin NIBSC code: 18/154 Instructions for use (Version 1.0, Dated 13/06/2019)

This material is not for in vitro diagnostic use.

This material is a purified extract of pertactin isolated from Bordetella pertussis. It is a reference preparation for use in the control testing and characterisation of acellular pertussis vaccines

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 the freeze dried residue of 0.5 ml of 25mM tris pH 8.0, 0.15M NaCl which contained:

20 micrograms Pertactin

Trehalose 1%

5. STORAGE

Unopened ampoules should be stored at -20°C.

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

Purified pertactin was generously donated by Serum Institute of India.

Ampoules coded 18/154 were prepared according to the procedures used for international biological standards (29th ECBS Report, 1978). A solution of pertactin, of known concentration, was diluted to yield a solution containing 25mM tris pH 8.0, 0.15M NaCl, 1% trehalose and 20 micrograms pertactin. The solution was distributed in 0.5ml aliquots into ampoules. The ampouled solution was lyophilised, and the ampoules sealed under nitrogen by heat fusion of the glass and stored at -20°C in

For practical purposes each ampoule contains the same quantity of pertactin. The entire contents of each ampoule should be completely dissolved in an accurately measured amount of solvent (distilled water, saline or buffer) and the solution kept cool (eg at +4°C) prior to use. No attempts should be made to weigh out proportions of the freeze dried

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powder. It is recommended that the solution, not for immediate use, is stored at -20°C or below. Repeated freezing and thawing should be avoided. the ampoules contain no bacteriostat and the preparation should not be assumed to be sterile.

STABILITY

Reference materials are held at NIBSC within assured, temperaturecontrolled storage facilities. Reference Materials should be stored on receipt as indicated on the label.

Accelerated degradation studies performed suggest that this material will be stable when stored at the recommended storage temperature of -20°C.

Users who have any data supporting any change in the characteristics of this material are encouraged to contact NIBSC.

REFERENCES

N/A

10. ACKNOWLEDGEMENTS

Serum Institute of India is gratefully acknowledged for donation of the purified antigen material used in the preparation of this replacement standard. We would like to express our thanks to SPD (NIBSC) for assistance in the determination of freeze drying conditions and for moisture and oxygen determinations of the ampouled material and the staff of CBRM for assistance with the filling procedure.

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: Freeze dried powder	Corrosive:	No	
Stable: Yes	Oxidising:	No	
Hygroscopic: No	Irritant:	No	





Flammable: No	Handling:	See caution, Section 2		
Other (specify): Contains material of biological origin				
Toxicological properties				
Effects of inhalation: Not established, avoid inhalation		tablished, avoid inhalation		
Effects of ingestion: Not established, avoid ingestion				
Effects of skin absorption: Not established, avoid contact with sk				
Suggested First Aid				
Inhalation: Se	eek medical ad	vice		
Ingestion: Seek medical advice				
Contact with eyes: Wash with copious amounts of water. Seek medical advice				
Contact with skin: W	ash 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. 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: 0.5 - 1.0 g Toxicity Statement: Non-toxic

Veterinary certificate or other statement if applicable.

Attached: No

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