Medicines & Healthcare products Regulatory Agency



WHO International Standard The 3rd International Standard for Staphylococcus Alpha Antitoxin, Equine NIBSC code: STA Instructions for use (Version 5.0, Dated 14/10/2010)

1. INTENDED USE

The 3rd International standard preparation was established in 1982. It is prepared from a horse serum showing a good titre of the antitoxin. This material has been prepared by NIBSC and established by the Statens Serum Institut (SSI), Copenhagen, Denmark. The package insert from SSI 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

By definition each ampoule contains 220 International Units (IU) of Staphylococcus Alpha antitoxin.

4. CONTENTS

Country of origin of biological material: United Kingdom.

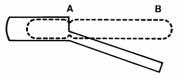
Each ampoule contains 93.7 mg of freeze-dried horse serum. By definition each ampoule contains 220 International Units (IU) of Staphylococcus Alpha antitoxin.

5. STORAGE

For long-term storage, this material 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

Tap the ampoule gently to collect the material at the bottom (labelled) end. Ensure ampoule is scored all round at the narrow part of the neck, with a diamond or tungsten carbide tipped glass knife file or other suitable implement before attempting to open. Place the ampoule in the ampoule opener, positioning the score at position 'A'; shown in the diagram below. Surround the ampoule with cloth or layers of tissue paper. Grip the ampoule and holder in the hand and squeeze at point 'B'. The ampoule will snap open. Take care to avoid cuts and projectile glass fragments that enter eyes. Take care that no material is lost from the ampoule and that no glass falls into the ampoule.



Side view of ampoule opening device containing an ampoule positioned ready to open. 'A' is the score mark and 'B' the point of applied pressure.

7. USE OF MATERIAL

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

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

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 (e.g. 4° C) prior to use. It is recommended that the solution is used immediately or aliquots should be stored at -20°C. The ampoules contain no bacteriostat and the preparations should not be assumed to be sterile.

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

See section 5 of the SSI insert.

10. ACKNOWLEDGEMENTS

SSI, WHO

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 horse serum		
Toxicological properties		
Effects of inhalation:	Not esta	blished, 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: medical advice	Wash with copious amounts of water. Seek	
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.

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: 93.7 mg Toxicity Statement: Toxicity not assessed Veterinary certificate or other statement if applicable.

17. CERTIFICATE OF ANALYSIS

Attached: No

NIBSC does not provide a Certificate of Analysis for WHO Biological Reference Materials because they are internationally recognised primary reference materials fully described in the instructions for use. The reference materials are established according to the WHO Recommendations for the preparation, characterization and establishment of international and other biological reference standards http://www.who.int/bloodproducts/publications/TRS932Annex2_Inter_bi olefstandardsrev2004.pdf (revised 2004). They are officially endorsed by the WHO Expert Committee on Biological Standardization (ECBS) based on the report of the international collaborative study which established their suitability for the intended use.

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





WHO International Laboratory for Biological Standards

+45 32 68 34 66 (G.A. Hansen direct) Phone: +45 32 68 31 50 (Laboratory direct) Telefax: E-mail (Internet): GAHANSEN@STANDARD.SSI.DK



of infectious diseases and congenital dis

THE INTERNATIONAL STANDARD for STAPHYLOCOCCUS ALPHA ANTITOXIN (3rd international standard preparation)

THE STANDARD PREPARATION

The third standard preparation was established in 1982¹. It is prepared from a serum collected from a horse showing a good titre of the antitoxin. It was freeze-dried in ampoules.

AMPOULE CONTENTS

Each ampoule contains 93.7 mg of freeze-dried horse serum. By definition each ampoule contains 220 International Units (IU) of Staphylococcus Alpha Antitoxin.

Another freeze-dried batch of the same serum constitutes the third British Standard.

USE OF THE STANDARD

A solution of the total contents of an ampoule will contain 220 IU in the total volume. This solution might be used for calibrating a local reference preparation.

4. GENERAL REMARKS ABOUT INTERNATIONAL REFERENCE MATERIALS International biological standards and international biological reference International biological standards and international biological reference reagents provide a means of ensuring uniformity throughout the world in the designation of the potency or activity of preparations used in the prophylaxis, therapy, or diagnosis of disease, where this cannot be expressed in terms of physical or chemical quantities. The International Units are units of quantities of "effective constituent"².

The standard is the material as it exists in the ampoules; the "material" thus includes the effective constituents together with all the other constituents that may be present (moisture, carrier, buffer, salt etc., according to the form in which the standard is available).

International biological reference materials are intended for use in the calibration of the contents of "effective constituent" in national or working standard preparations and for the expression of these contents in the respective International Units. For the routine use in the laboratory the national or working standards should be used in order to save as much as possible the international reference materials. These are only sent to individual laboratories in very limited amounts. The preparations are sent free of charges but sometimes a small charge might be claimed for the airr freighting. freighting.

July 1996

Statens Serum Insti 5 Artillerivej 2300 Copenhagen Denmark

Tel.: +45 3268 3268 Fax: +45 3268 386 E-mail: serum@ssi.

REFERENCES

1. WHO Technical Report Series No. 687, 1983, p.20

2 Jerne & Wood, The Validity and Meaning of the Results of Biological Assays, Biometrics vol. 5, December 1949.

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

