

#### WHO International Standard 1st IS for human syphilitic plasma IgG and IgM NIBSC code: 05/132 Instructions for use (Version 6.0, Dated 20/12/2018)

## 1. INTENDED USE

This standard can be used to calibrate the venereal disease research laboratory test (VDRL) and the rapid plasma reagin test (RPR) and the *Treponema pallidum* passive particle agglutination assay (TPPA). In addition this standard can be used as a positive control in the1) Fluorescent Treponema Antibody (FTA) assay, the 19SIgM FTA and IgM and IgG enzyme immunoassays<sup>1,2</sup>.

#### 2. CAUTION

# This preparation is not for administration to humans or animals in 3) 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

3 IU per ampoule relative to HS, the 1<sup>st</sup> IS for human syphilitic antibodies [3].

#### 4. CONTENTS

Country of origin of biological material: South Africa.

#### 5. STORAGE

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.

Tap the ampoule gently to collect the material at the bottom (labeled) end. Ensure that the disposable ampoule safety breaker provided is pushed down on the stem of the ampoule and against the shoulder of the ampoule body. Hold the body of the ampoule in one hand and the disposable ampoule breaker covering the ampoule stem between the thumb and first finger of the other hand. Apply a bending force to open the ampoule at the coloured stress point, primarily using the hand holding the plastic collar.

Care should be taken to avoid cuts and projectile glass fragments that might enter the eyes, for example, by the use of suitable gloves and an eye shield. Take care that no material is lost from the ampoule and no glass falls into the ampoule. Within the ampoule is dry nitrogen gas at slightly less than atmospheric pressure. A new disposable ampoule breaker is provided with each DIN ampoule.

Care should be taken on opening to prevent the contents escaping.

#### 7. USE OF MATERIAL

<u>No attempt should be made to weigh out any portion of the freeze-dried</u> <u>material prior to reconstitution</u>. After reconstitution with 1 ml distilled water or Milli-pore water, material should be used immediately. Storage at 4°C is optional.

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#### 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. Accelerated degradation studies over 1 year have shown freeze-dried antibodies in plasma stored in unopened ampoules at -20°C to be extremely stable [1,2].

#### 9. REFERENCES

Rigsby P, et al., Evaluation of two Human plasma pools as candidate International Standard Preparations for syphilitic antibodies. Biologicals 2009; 37: 245-251

WHO/BS/07.2059: Evaluation of two Human plasma pools as candidate International Standard Preparations for syphilitic antibodies.

Weiss Bentzon & Krag. Bull. World Health Org. 1961; 24: 257-264.

# 10. ACKNOWLEDGEMENTS

n/a

2)

#### 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 appearance:		Corrosive:	No	
dry powder Stable:	Yes		Oxidising:	No
Hygroscopic:	Yes		Irritant:	No
Flammable: No			caution, Section 2	
Tiammabiei		s huma	an plasma	
			al properties	
Effects of inhalation:		Not	lot established, avoid inhalation	
Effects of ingestion:		Not established, avoid ingestion		
Effects of skin absorption:		Not	t established, avoid contact with skin	
	Sug	geste	d First Aid	
Inhalation: Seek medical advice				
Ingestion:	Seek ı	nedica	al advice	
Contact with eyes:	Wash medic			s of water. Seek
Contact with skin:	Wash	thorou	ighly with water	r.
Action	on Spill	age ai	nd Method of [	Disposal
Spillage of ampoule	contents	s shou	ld be taken up	with absorbent
material wetted with				Rinse area with an
appropriate disinfect			·	
Absorbent materials	used to	treat s	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: 0.07 g		
Toxicity Statement: Non-toxic		
Veterinary certificate or other statement if applicable.		
Attached: No		

#### 17. CERTIFICATE OF ANALYSIS

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)

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based on the report of the international collaborative study which established their suitability for the intended use.

