

Non WHO Reference Material ANGIOTENSIN I (2.6 µg) (Human type, synthetic) NIBSC code: 86/536 Instructions for use (Version 6.0, Dated 30/04/2013)

This material is not for in vitro diagnostic use.

1. INTENDED USE

Calibrant for angiotensin I assays

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

Each ampoule contains angiotensin I approx. 2.6 µg

Country of origin of biological material: angiotensin I: Japan, HSA: UK.

Each ampoule contains the residue after freeze-drying of 0.5 ml of a solution that contained:

Angiotensin I (Ileu⁵) $2.6 \mu g$ Trehalose 3 mg Human serum albumin 0.5 mg Acetic Acid 0.02 mol/l

The material has not been sterilized and contains no bacteriostat.

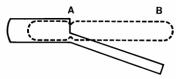
5. STORAGE

Store 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

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. 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.

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7. USE OF MATERIAL

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

material prior to reconstitution.

For all practical purposes each ampoule contains the same amount of the same materials. Dissolve the total contents in a known amount of suitable buffer solution with carrier protein (free of peptidase), where extensive dilution is required, to minimise loss by surface adsorption.

For economy of use it is recommended that the solution be subdivided into several small containers, which are frozen rapidly to below -40°C and then stored below -40°C in the dark. Repeated freezing and thawing should be avoided.

STABILITY

NIBSC follows the policy of WHO with respect to its reference materials. It is the policy of WHO not to assign an expiry date to their international reference materials. They remain valid with the assigned potency and status until withdrawn or amended. Reference materials are held at NIBSC within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label. In addition, once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact NIBSC.

9. REFERENCES

Not Applicable

10. ACKNOWLEDGEMENTS

The angiotensin I contained in this ampoule was generously contributed to WHO by Peptide Institute, Peptide Research Foundation, Japan.

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

(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: Yes		Irritant:	No
Flammable: No		Handling:See	e caution, Section 2
Other (specify): Contains material of human origin			
Toxicological properties			
Effects of inhalation: Not e		established, avoid inhalation	
Effects of ingestion: Not e		established, avoid ingestion	
Effects of skin absorption: Not e		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 contents should be taken up with absorbent material			
wetted with an appropriate virucidal agent. Rinse area with an			
appropriate virucidal agent 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: 4mg

Toxicity Statement: Toxicity not assessed

Veterinary certificate or other statement if applicable.

Attached: No

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