Working Standard
Diphtheria Toxoid Monoclonal Antibody DT05
NIBSC code: DT05
Instructions for use
(Version 2.0, Dated 23/08/2022)
This material is not for in vitro diagnostic use

1. INTENDED USE
Monoclonal antibody clone DT05 is intended to be used in immunoassays that measure the content and quality of diphtheria toxoid antigen in vaccines for human use.

Batch 1 (Batch ID 220111-DT05)

2. CAUTION
The material is not of human or bovine origin. This preparation is not for administration to humans or animals. 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
N/A

4. CONTENTS
Country of origin of biological material: France. Each vial contains 0.5 ml of liquid anti-diphtheria monoclonal antibody clone DT05 at a total protein concentration of 1 mg/mL. DT05 is a rat IgG2a antibody produced from hybridoma and Protein G purified. The antibody is in Phosphate Buffer pH 7.4 (155 mM NaCl, 50 mM Na2HPO4 and 1.8 mM KH2PO4). The antibody was filtered (0.2 µM) and does not contain preservative.

5. STORAGE
The material should be stored in the dark at -80°C. Material type: Liquid – will be shipped according to the storage and shipping conditions of the product.

6. DIRECTIONS FOR OPENING
Vials have a screw cap; an internal stopper may also be present. The cap should be removed by turning anti-clockwise. Care should be taken to prevent loss of the contents. Please note: If a stopper is present on removal of the cap, the stopper should remain in the vial or be removed with the cap.

7. USE OF MATERIAL
DT05 has been used as a capture antibody in an ELISA developed by NIBSC (with Dim9 used as the detection antibody). A dilution of 1/250 has been shown to be suitable for coating ELISA plates.

8. STABILITY
Reference materials are held at NIBSC within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label.

9. REFERENCES

10. ACKNOWLEDGEMENTS
N/A

11. FURTHER INFORMATION
Further information can be obtained as follows; This material: enquiries@nibsc.org
WHO Biological Standards: http://www.who.int/biologicals/en/
Derivation of International Units: http://www.nibsc.org/standardisation/international_standards.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

<table>
<thead>
<tr>
<th>Physical and Chemical properties</th>
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<tbody>
<tr>
<td><strong>Physical appearance:</strong> Liquid</td>
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<tr>
<td><strong>Stable:</strong> Yes</td>
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<td><strong>Oxidising:</strong> No</td>
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<tr>
<td><strong>Flammable:</strong> No</td>
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<tr>
<td><strong>Irritant:</strong> No</td>
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<tr>
<td><strong>Handling:</strong> See caution, Section 2</td>
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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. 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*: France
* 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 g
Toxicity Statement: Non-toxic
Veterinary certificate or other statement if applicable.
Attached: No

Additional product information for this batch

SE-HPLC chromatogram for DT05:

[Image of HPLC chromatogram]