



**Non WHO Reference Material  
Polio Anti Sabin type 2 (inactivated) serum  
NIBSC code: 13/220  
Instructions for use  
(Version 3.0, Dated 17/09/2020)**

**This material is not for in vitro diagnostic use.**

**1. INTENDED USE**

This antiserum is intended to be used for ELISA or neutralisation assays for the evaluation of type 2 poliovirus.

**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.  
The type 2 poliovirus antiserum 13/220 was raised in sheep (SH 6239). The initial dose of approximately 250 D-Ag units of inactivated sabin type 2 virus (IPV2) was administered with Freund's Complete Adjuvant (FCA), given intramuscularly. This was followed two weeks later with a second 250 D-Ag dose including Freund's Incomplete Adjuvant (FIA). A further 250D-Ag unit dose of IPV2 including FIA was given after a further two weeks. Six weeks after the initial immunization, serum was collected, and treated by an APHIS approved method for the inactivation of FMDV. The treatment method used was maintenance of pH5.5 or lower for a minimum of 30 minutes. The sera was subsequently diluted 1:3 with PBS buffer and filtered using a 0.22µm filter prior to filling into vials in 0.45ml volumes (450µl).

**5. STORAGE**

Please store at -20°C or below, ideally -70°C.

**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**

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

This material, 13/220 is intended for use in ELISAs for the evaluation of type 2 poliovirus.

It can be used as a coating antigen for ELISA assays at a dilution of 1:1000.

**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.

NIBSC follows the policy of WHO with respect to its reference materials.

**9. REFERENCES**

None

**10. ACKNOWLEDGEMENTS**

None

**11. FURTHER INFORMATION**

Further information can be obtained as follows;

This material: [enquiries@nibsc.org](mailto: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](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](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](mailto: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:	Corrosive: No
Liquid	
Stable: No	Oxidising: No
Hygroscopic: No	Irritant: No
Flammable: No	Handling: See caution, Section 2
Other (specify):	Sheep serum
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](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

<b>Country of origin for customs purposes*:</b> 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.
<b>Net weight:</b> 2g
<b>Toxicity Statement:</b> Non-toxic
<b>Veterinary certificate or other statement</b> if applicable. <b>Attached:</b> Yes SH6239



**Olga Woolmer MRCVS**  
Named Veterinary Surgeons Group  
Royal Veterinary College  
Royal College Street  
LONDON  
NW1 0TU

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### VETERINARY CERTIFICATE OF ANIMAL HEALTH

This is to certify that I have examined a Sheep with ear tag number: UK 028 8289 6239 [Virology no. JM-G:64 - 6239], which has been used in the production of blood antiserum between 3<sup>rd</sup> July 2013 and 14<sup>th</sup> August 2013. Both the ear tag number and the animals' record show that it is of UK origin.

This animal was a breeding Ewe which became surplus to requirements. In my opinion at the time of clinical examination, the ewe was in good health and showed no clinical signs of infectious disease.

Olga Woolmer, MRCVS  
Named Veterinary Surgeon

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Olga Woolmer MRCVS  
Named Veterinary Surgeons (NVS) Group  
The Royal Veterinary College, Royal College Street, London NW1 0TU  
Mobile: 07809 199998, E-mail: owoolmer@rvc.ac.uk