Medicines & Healthcare products Regulatory Agency

NIBSC Confidence in Biological Medicines

CE Marked Material
QCRHIV1QC1 - Anti-HIV-1 Quality Control Serum Sample 1
NIBSC code: QCRHIV1QC1
Instructions for use
(Version 4.0, Dated 05/03/2024)

This material is an 'Annex II List A' IVD and complies with the requirements of the "EU in vitro diagnostic medical device directive 98/79/EC"

1. INTENDED USE

This product is CE marked for use as an IVD within the UK, EU member states and EEA countries. In all other territories this product can be used for research purposes only.
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Anti-HIV-1 QC1 i(11/b608) s intended for use in the internal laboratory quality control
of immunoassays that detect antibodies to human immunodeficiency virus
type 1. The anti-HIV-1 QC1 should be included in each run as part of a continuing quality control programme to monitor the performance of the
assay. Data obtained with the anti-HIV-1 QC1 can be used to construct quality control charts that can be visually monitored each time the assay is
run to check for consistency of performance of the assay. Examples of how these charts are constructed and used have been described elsewhere1. Anti-HIV-1 QC1 is NOT INTENDED TO BE USED TO COMPARE THE SENSITIVITY OF PARTICULAR ASSAYS.

2. CAUTION

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. This preparation is not for administration to humans or animals

The anti-HIV-1 QC1 has been prepared from a pool of heat inactivated anti--HIV-1 reactive defibrinated plasma donations, repeatedly reactive in commercial EIA kits and confirmed as anti-HIV-1 positive/anti-HIV-2 negative by commercial Western Blot kits. The reactive donations used to prepare anti-HIV-1 QC1 were non-reactivefor HBsAg and anti-HCV using commercial EIA kits. The reactive donations were pooled and then diluted in a pool of defibrinated human plasma donations. These samples were non-reactive for HBsAg, anti-HCV and anti-HIV1/2 using commercial EIA kits. Bronidox® was added toa concentration of 0.05%(w/v) as a preservative.Please complete this section manually by typing over this textAs 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

Table 1 gives a summary of the results obtained for anti-HIV-1 QC1 11/B608 These results are intended only as a guide to the approximate levels of reactivity to be expected, and may not be exactly reproduced in
other laboratories. In each case, at a minimum, three samples of anti-HIV-
1 QC1 were tested on two separate occasions. The results are expressed as the ratio of mean optical density or other measurement of the anti-HIV-
1 response of the QC1 sample, to the kit manufacturer's calculated cut-off

4. CONTENTS

Country of origin of biological material: United Kingdom.
Ready-to-use reagent
REF QCRHIV1QC1 1 x 4mL Blood Tubes
Defibrinated Plasma 4mL
Bronidox® (Sigma Aldrich) 0.05% (w/v)

5. STORAGE

Reagents are to be kept at 2-8ºC upon receipt
o Reagents may be stored at 2-8ºC until use by date
o Reagents should be divided into measured sub-aliquots of one use and stored below -20ºC to avoid freeze/thaw cycles. Use only until the expiry dateon the label.
o When thawed for use, store at 2-8ºC.
o Once thawed, use within one month and do not refreeze
o Ensure all containers are properly sealed to avoid drying out of reaget

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

1. Use of this reagent is to be restricted to trained laboratory staff only
2. Use suitable (latex/nitrile) gloves and eye/skin protection
3. Include reagent as a normal sample in routine work list
4. Allow reagent to reach room temperature before use
5. Plot reagent result on a QC chart to monitor performance

The Result Reporting System (RRS) has been developed by the National Institute for Biological Standards and Control (NIBSC) for the data monitoring of its serology and NAT quality control (QC) reagents. These include the Quality Control Reagent Unit (QCRU) and Clinical Virology Network (CVN) reagents. The system has been successfully running for serology assays for several years collecting thousands of data points a year. The system has recently been developed to accept data for Nucleic Acid-based Technologies (NAT) reagents and associated assays.
https://www.nibsc.org/products/rrs.aspx

8. STABILITY (Add or amend as necessary)

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

Stability studies are carried out to ensure stated stability of this product.

9. REFERENCES

Levey, S. and Jennings, E.R. (1950) The use of control charts in clinical laboratories. Am.J.Clin.Pathol. 20, 1059-1066.

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

CE 1434

10. ACKNOWLEDGEMENTS

EC REP Advena Ltd. Tower Business Centre, 2nd Floor, Swatar, BKR 4013, Malta

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 (Add or amend as necessary)

Classification in accordance with Directive 2000/54/EC, Regulation (EC) No 1272/2008: Not applicable or not classified

Physical and Chemical properties			
Physical appearance: Liquid		Corrosive:	No
Stable:	Yes	Oxidising:	No
Hygroscopic:	No	Irritant:	No
Flammable:	No	Handling:	See caution, Section 2
Other (specify):			
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*: 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: 4 g
Toxicity Statement: Toxicity not assessed
Veterinary certificate or other statement if applicable. **Attached:** No

TABLE 1: Results obtained for Anti-HIV1QC1 (Lot Number: 11/B608) using the following kits.

EIA KIT	Method Options	Mean	SD (n-1)
Architect HIV Ag/Ab Combo Manufacturer: Abbott Diagnostics Catalogue Number: 4J27 Lot Number: 08107LI00 & 03344LI00	Automated	99.1	15.1
Enzynost Anti-HIV 1 / 2 Plus Manufacturer: Siemens Catalogue Number: OQFK13 Lot Number: 40221 & 40373	Standard Protocol	4.0	0.3
Bioelisa HIV-1+2 3.0 Manufacturer: Biokit Catalogue Number: 3000-1168 Lot Number: B23096	Standard Protocol	32.0	2.6
Genetic Systems HIV-1 Ag Manufacturer: Bio-Rad Catalogue Number: 71120 Lot Number: 1B0043	Standard Protocol	0.6	N/A
Determine HIV-1 / 2 Ag/Ab Combo Manufacturer: Alere Catalogue Number: 7D2646 Lot Number: 1106141ALCE	Point of Care Test	Positive	N/A