

VIROTROL® HIV-1 Ag

REF 00108A 1 x 5 mL
00108B 1 x 5 mL



IVD

ENGLISH

THESE REAGENTS MUST NOT BE SUBSTITUTED FOR THE MANDATORY POSITIVE AND NEGATIVE CONTROL REAGENTS PROVIDED WITH COMMERCIAL TEST KITS.

INTENDED USE

VIROTROL HIV-1 Ag is intended for use as an unassayed reactive quality control with *in vitro* assay procedures for determination of antigens to Human Immunodeficiency Virus Type 1 (HIV-1). This product is intended to provide a means of estimating precision and has the potential for detecting systematic deviations from specific laboratory testing procedures.

SUMMARY

Monitoring the performance of laboratory test procedures through use of a well-designed quality assurance program provides added confidence in the reliability of test results obtained for unknown specimens (1,2,3). Use of independent quality assurance control reagents provides a means for monitoring performance of laboratory procedures on a routine basis and analyzing system performance on a retrospective basis. Routine monitoring of test performance will assist the laboratorian in identifying random or systematic errors and detecting trends, biases or other problems as they occur. A laboratory's analyses can be compared with those of other laboratories or with its own prior analyses by routinely analyzing test samples that have been obtained from a large common pool. Inclusion of this product in every test run will provide the laboratory with a means of estimating precision and monitoring overall system performance on a run-to-run basis. Proper use of this product can assist laboratories in analyzing and identifying problems in a test run and improving the quality and proficiency of routine testing.

PRINCIPLES OF THE PROCEDURE

This product was designed for use with *in vitro* assay procedures for purposes of monitoring assay performance and maintaining quality assurance. Although this product DOES NOT HAVE ASSIGNED VALUES, each lot of material is designed to be reactive within a target range established by each laboratory. This product should be analyzed in the same manner as unknown specimens according to instructions supplied by the manufacturer of the test kit being used.

REAGENT

This product is prepared from processed human plasma or serum, whole HIV-1 viral lysate, proteins from human sources, antimicrobial agents as preservative, and stabilizers. Antigen preparations used to produce this product contain multiple antigens derived from HIV-1 virus propagated in human tissues. Source materials have been processed, chemically treated and heat treated to eliminate unwanted components and to inactivate infectious agents (4).

STORAGE AND STABILITY

This product will be stable until the expiration date (printed on the bottle label) when stored unopened at 2 to 8°C. Once opened, this product will be stable for 60 days.

To prevent leakage or wetting of caps, the bottles should be stored upright. Plugs and screw caps should remain on bottles while in storage.

This product is shipped under ambient conditions.

PROCEDURE

1. This product may be included in a test run following the stepwise procedure provided by the test kit manufacturer for unknown specimens.
2. Prior to use, allow this product to reach room temperature.
3. Mix contents by gentle swirling or inversion prior to dispensing. Do not vortex or mix by vigorous shaking.
4. Avoid microbial contamination when opening and dispensing from the bottle.
5. Dispense this product from bottle using dropper tip. Do not remove dropper tip from bottle.
6. After each use return this product to refrigerated (2 to 8°C) storage.

Safety Precautions

1. Wear protective clothing and gloves when handling samples or reagents.
2. Clean any spillage by immediately and thoroughly wiping up with a suitable disinfectant such as 1% sodium hypochlorite solution.
3. Handle and dispose of all specimens, controls and materials used in testing as though they contain infectious agents (5,6,7).
4. Dispose of any discarded materials in accordance with the requirements of your local waste management authorities. In the event of damage to packaging, contact the local Bio-Rad Laboratories Sales Office or Bio-Rad Laboratories Technical Services.

INTERPRETATION OF RESULTS

It is recommended that each laboratory establish its own target ranges with each lot of this product. Target ranges may be established by performing replicate assays with this product using a statistically valid number of points. In order to minimize the risk of underestimating variability when establishing a target range, each laboratory should include replicate determinations from multiple test runs, multiple test kit lots and multiple operators whenever possible. Results from replicate determinations can be used by the laboratory to calculate basic statistical parameters such as mean and standard deviation from which an acceptable target range can then be established. Although individual values may not be identical to an established mean value, results obtained in the laboratory should fall within its target ranges. Results outside the range may be indicative of unsatisfactory test performance and should be investigated. Such discrepancies may be related to the following sources:

- Cross-contamination of this product with high titer specimen
- Cross-contamination of this product with non-reactive specimen or specimen diluent
- Improper equipment operation
- Deterioration or contamination of test kit reagents
- Variations in technique between different operators

Investigation and possible resolution of discrepant results may include, but should not necessarily be limited to, the following procedures:

- Verification of standardized handling techniques and proper use of this product
- Verification of proper use and handling of test kit reagents
- Retesting with a new bottle of this product
- Retesting with new test kit reagents
- Contacting the local Bio-Rad Laboratories Sales Office or Bio-Rad Laboratories Technical Services
- Contacting the manufacturer of the reagent test kit for technical support

LIMITATIONS

1. This product must not be substituted for the mandatory positive and negative control reagents provided with commercial test kits.
2. This product is provided for quality assurance purposes and must not be used for calibration or as primary reference preparations in any test procedure.
3. TEST RESULTS and INTERPRETATION OF RESULTS provided by manufacturers of commercial test kits must be followed closely when testing this product. Deviations from procedures recommended by reagent test kit manufacturers may produce unreliable results.
4. Since this product is prepared from processed human plasma or serum as well as other non-human derived constituents, incompatibilities between this product and test kits may exist on a manufacturer to manufacturer or a test kit lot to test kit lot basis. Accordingly, users should determine compatibility and performance with each new lot of test kit prior to testing specimens.
5. It is the responsibility of each laboratory to implement its own quality assurance program to determine the suitability of this product for its particular use and to establish guidelines for interpretation of results obtained with this product.
6. Since this product does not have assigned values, it is recommended that each laboratory validate the use of each lot of this product with each specific assay system prior to its routine use in the laboratory.
7. Adverse storage conditions or use of outdated reagents may produce erroneous results.
8. This product should not be used past the expiration date.
9. Alterations in physical appearance may indicate instability or deterioration of this product. If there is evidence of microbial contamination or excessive turbidity in this product, discard the bottle.
10. Performance characteristics and stability of this product have not been established for neutralization procedures for HIV-1 antigen.

EXPECTED RESULTS

THIS PRODUCT DOES NOT HAVE ASSIGNED VALUES.

Results should be determined in the same manner as used for unknown specimens when tested using commercial test kits. Results may vary among methodologies, among manufacturers, among different lots of the same test kit and among different laboratories.

SPECIFIC PERFORMANCE CHARACTERISTICS

This product has been designed to produce a positive reaction when used in the proper manner with many commercial test kits following procedures supplied by the reagent manufacturer for testing unknown specimens. However, levels of reactivity and specific performance characteristics of this product will vary with different manufacturers' kits and assay procedures.



Catalog Number



European Conformity



In Vitro Diagnostic Medical Device



Use by (YYYY-MM-DD)



Lot Number



Consult Instructions for Use



Caution, Consult Accompanying Documents



Temperature Limitation



Manufacturer



Authorized Representative



WARNINGS AND PRECAUTIONS



WARNING

ENGLISH

Biological source material. Treat as potentially infectious.

Each human donor unit used in the preparation of this product was tested as required by FDA accepted methods. Tests results were non-reactive or negative for evidence of infection due to Human Immunodeficiency Virus (HIV), Hepatitis B Virus (HBV) and Hepatitis C Virus (HCV). However, no known test method can assure that products derived from human sources will not transmit infection. It is recommended that this product and all human specimens be handled in accordance with Biosafety Level 2 practices as described in the United States Department of Health and Human Services Centers for Disease Control and Prevention (CDC) and National Institutes of Health (NIH), Biosafety in Microbiological and Biomedical Laboratories (5), or other equivalent guidelines (6,7).

Hazard (H) and Precautionary (P) statements

Contains 5-chloro-2-methyl-2H-isothiazol-3-one

H317 May cause an allergic skin reaction. **P261** Avoid breathing dust / fume / gas / mist / vapours / spray. **P272** Contaminated work clothing should not be allowed out of the workplace. **P280** Wear protective gloves / protective clothing / eye protection / face protection. **P302+P352** IF ON SKIN: Wash with plenty of soap and water. **P333+P313** If skin irritation or rash occurs: Get medical advice / attention. **P363** Wash contaminated clothing before reuse.

Safety Data Sheet (SDS) available for professional users on www.bio-rad.com.

REFERENCES

1. Clinical and Laboratory Standards Institute (CLSI). Statistical Quality Control for Quantitative Measurement Procedures: Principles and Definitions: Approved Guideline – Third Edition. CLSI document C24-A3 (ISBN 1-56238-613-1), Clinical and Laboratory Standards Institute Wayne, Pennsylvania 19087-1898, USA 2006.
2. Linden, J.V., Wethers, J. and Dressler, K.P. Controversy in transfusion medicine: Use of external controls in transmissible disease testing: Pro. Transfusion 1994; 34:550.
3. Epstein, J.S. Sensitivity and consistency of screening tests for antibodies to human immunodeficiency virus type 1. Transfusion 1991; 31: 388.
4. Spire, B., Dormont, D., Barre-Sinoussi, F., Montagnier, L. and Chermann, J.C. INACTIVATION OF LYMPHADENOPATHY-ASSOCIATED VIRUS BY HEAT, GAMMA RAYS, AND ULTRAVIOLET LIGHT. Lancet 1985; i: 188.
5. U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories- Fifth Edition HHS Publication (NIH) 93-8395 US Government Printing Office Washington: February 2007.
6. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline – Third Edition. CLSI document M29-A3 (ISBN 1-56238-567-4), Clinical and Laboratory Standards Institute Wayne, Pennsylvania 19087-1898, USA 2005.
7. Clinical and Laboratory Standards Institute (CLSI) Clinical Laboratory Waste Management; Approved Guideline – Third Edition. CLSI document GP05-A3 (ISBN 1-56238-744-8), CLSI Wayne, Pennsylvania 19087, USA 2011.

ORDERING INFORMATION

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Reactivities may vary among manufacturers' instruments and assays, reagent lots, and different laboratory protocols. To determine which VIROTROL product best meets your individual needs, please contact your local Bio-Rad Laboratories sales office or representative.



UNITED STATES, Bio-Rad Laboratories
9500 Jeronimo Road, Irvine, CA 92618



FRANCE, Bio-Rad
3 boulevard Raymond Poincaré
92430 Marnes-la-Coquette
Phone: (33) 1-4795-6000 / Fax: (33) 1-4741-9133

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**Bio-Rad
Laboratories**

Clinical Diagnostics Group

9500 Jeronimo Road
Irvine, California 92618
(800) 854-6737
FAX (949) 598-1550
bio-rad.com/qualitycontrol

Technical Service:
(800) 854-6737

Australia, Bio-Rad Laboratories Pty. Ltd., Level 5, 446 Victoria Road, Gladesville NSW 2111 • Phone 61-2-9914-2800 • Telefax 61-2-9914-2888
Austria, Bio-Rad Laboratories Ges.m.b.H., Hummelgasse 88/3-6, A-1130 Vienna • Phone 43-1-877-8901 • Telefax 43-1-876-5629
Belgium, Bio-Rad S.A.-N.V. Winninglaan 3, BE-9140 Temse • Phone +32 (3)710-53-00 • Telefax +32 (3)710-53-01
Brazil, Bio-Rad Laboratórios Brasil Ltda, Rua Alfredo Albano da Costa, 100, Lagoa Santa - MG, CEP: 33400-000 • Phone +55 (31)3689-6600 • Telefax +55 (31)3689-6611
Canada, Bio-Rad Laboratories, Ltd., 2403 Guénette Street, Montréal, Québec H4R 2E9 • Phone 1-514-334-4372 • Telefax 1-514-334-4415
China, Bio-Rad Laboratories Shanghai Ltd., 3rd Floor, #18 Dong Fang Road, Bldg E, Poly Plaza, Pudong, Shanghai, PRC 200120 • Phone 86-21-61698500 • Telefax 86-21-61698599
Czech Republic, Bio-Rad spol. s r.o., Nad ostrovem 1119/7, 147 00 Prague 4 • Phone 420-241-430-532 • Telefax 420-241-431-642
Denmark, Bio-Rad Laboratories, Symbion Science Park, Fruebjergvej 3, DK-2100 Copenhagen East • Phone +45-4452-1000 • Telefax +45-4452-1001
Finland, Bio-Rad Laboratories, Linnaherrankuja 16, FIN-00950 Helsinki • Phone 358-9-804-22-00 • Telefax 358-9-7597-5010
France, Bio-Rad, 3 boulevard Raymond Poincaré, 92430 Marnes-la-Coquette • Phone 33-1-47-95-60-00 • Telefax 33-1-47-41-91-33
Germany, Bio-Rad Laboratories GmbH, Heidemannstrasse 164, D-80939 Munich • Phone +49 (0)89-318-840 • Telefax +49 (0)89-318-84100
Greece, Bio-Rad Laboratories M.E.P.E., 2-4 Mesogeion Street, Fourth Floor 115 27 Athens • Phone 30-210-7774396 • Telefax 30-210-7774376
Hong Kong, Bio-Rad Pacific Ltd., Unit 1101, 111/F DCH Commercial Centre, 25 Westlands Road, Quarry Bay • Phone 852-2789-3300 • Telefax 852-2789-1290
Hungary, Bio-Rad Hungary Ltd., H-1082 Budapest, Futo street 47-53, Hungary • Phone +36-1-459-6100 • Telefax +36-1-459-6101
India, Bio-Rad Laboratories (India) Pvt. Ltd., Bio-Rad House, 86-87, Udyog Vihar Phase IV, Gurgaon, Haryana 122 015 • Phone 1800-180-1224 • Telefax 91-124-2398115
Israel, Bio-Rad Laboratories S.r.l., 14 Homa Street, New Industrial Area, Rishon Le Zion 75655 • Phone 972-3-9636050 • Telefax 972-3-9514129
Italy, Bio-Rad Laboratories S.r.l., Via Cellini 18/A, 20090 Segrate, Milan • Phone +39-02-216091 • Telefax +39-02-21609553
Japan, Bio-Rad Laboratories K.K., Tennoz Central Tower 20F, 2-2-24 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002 • Phone 81-3-6361-7070 • Telefax 81-3-5463-8481
Korea, Bio-Rad Korea Ltd., 10th Floor, Hyunjuik Building, 832-41, Gangnam-gu, Seoul 135-080 • Phone 82-2-3473-4460 • Telefax 82-2-3472-7003
Mexico, Bio-Rad, S.A., Avenida Eugenia 197, Piso 10-A, Col. Narvarte, C.P. 03020 Mexico, D.F. • Phone +52 (55)5488-7670 • Telefax +52 (55)1107-7246
The Netherlands, Bio-Rad Laboratories B.V., Fokkerstraat 2-8, 3905 KV Veenendaal • Phone +31-318-540666 • Telefax +31-318-542216
New Zealand, Bio-Rad New Zealand, 189 Bush Road Unit B, Albany, Auckland • Phone 64-9-415-2280 • Telefax 64-9-415-2284
Norway, Bio-Rad Laboratories, Nydalsveien 33, 0484 Oslo • Phone +47-23-38-41-30 • Telefax +46(0)8-5551-2780
Poland, Bio-Rad Polska Sp. z o.o., Nakielska Str. 3, 01-106 Warsaw • Phone 48-22-3319999 • Telefax 48-22-3319988
Portugal, Bio-Rad Laboratories, Lda., Edifício Prime, Ave. Quinta Grande, 53 – Fracção 3B Alfragide 26114-521 Amadora • Phone 351-21-472-7700 • Telefax 351-21-472-7777
Russia, Bio-Rad Laboratorii, 117105, Russian Federation, Moscow, Varshavskoe sh., 9, Bldg., 1B • Phone +7-495-721-1404 • Telefax +7-495-721-1412
Singapore, Bio-Rad Laboratories (Singapore) Pte. Ltd., 27 International Business Park, #01-02 iQuest @IBP, Singapore 609924 • Phone 65-6415-3170 • Telefax 65-6415-3189
South Africa, Bio-Rad Laboratories (Pty) Ltd., 34 Bolton Road, Parkwood, Johannesburg 2193 • Phone 27-11-442-85-08 • Telefax 27-11-442-85-25
Spain, Bio-Rad Laboratories, S.A., C/ Caléndula, 95, Edificio M. Miniparc II, El Soto de la Moraleja, 28109 Madrid • Phone 34-91-590-5200 • Telefax 34-91-590-5211
Sweden, Bio-Rad Laboratories A.B., Box 1097, Soina Strandväg 3, SE-171 54, Solna • Phone +46-8-555-127-00 • Telefax +46-8-555-127-80
Switzerland, Bio-Rad Laboratories AG, Fra Rond 23, CH-1785 Cressier • Phone +41 (0)26-674-55-05/06 • Telefax +41 (0)26-674-52-19
Taiwan, Bio-Rad Laboratories Taiwan Ltd., 14F-B, No. 126 Nan-King East Road, Sec. 4, Taipei, Taiwan 10546 R.O.C. • Phone 886-2-2578-7189 • Telefax 886-2-2578-6890
Thailand, Bio-Rad Laboratories (Pty) Ltd., 34 Bolton Road, Parkwood, Johannesburg 2193 • Phone 662-651-8311 • Telefax 662-651-8312
United Kingdom, Bio-Rad Laboratories Ltd., Bio-Rad House, Maxted Road, Hemel Hempstead, Herts HP2 7DX • Phone +44 (0)20-8328-2000 • Telefax +44 (0)20-8328-2550