MICROBIX

RED™ controls

REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control

Microbix Biosystems Inc.
265 Watline Avenue
Mississauga, Ontario,
Canada, L4Z 1P3

Cat#: RED-12-M2

IVD

About this package insert

Thank you for your interest in this REDx™ quality control product.
This package insert consists of two pages.

- The first page contains the product name and an explanation of the symbols used on the labeling.
- The second page contains the complete package insert text.

If the package insert you view or print does not contain two pages, or if you experience any problems, please email us at customer.service@microbix.com.

By phone: US customers call +1-800-794-6694; International customers call collect +1-905-361-8910.

A printed package insert will be sent to you upon request.

P/N RED-12-M2.5R1

Explanation of symbols used in Microbix product labeling


Upper limit of temperature


Temperature limitation


Highly flammable

IVD
In Vitro Diagnostic Medical Device


Manufacturer


Use By


"Caution, consult accompanying documents"


Toxic by inhalation, in contact with skin and if swallowed

CONTROL +
Positive control

REF
Catalogue number

LOT
Batch code


Single-use only

EN

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

REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control

FOR IVD USE.

INTENDED USE

REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control is an unassayed control intended to monitor laboratory testing performance, procedures, and workflow with nucleic acid tests (NATs) that detect *Chlamydia trachomatis* and *Neisseria gonorrhoeae* in human urine, vaginal, endocervical, pharyngeal, rectal, and urethral samples.

PRODUCT DESCRIPTION

REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control is formulated with inactivated native *Chlamydia trachomatis, Neisseria gonorrhoeae* and human fibroblast cells. REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control can be utilized as an external sample to monitor the processes of *Chlamydia trachomatis* and *Neisseria gonorrhoeae* nucleic acid detection assays, including sample extraction and purification, amplification, and detection[1].

REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control does not have an assigned value ("unassayed"). Laboratories are required to establish an acceptance range for each lot of REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control with all assay procedures that the control is intended to be used with, prior to routine use in the laboratory[2,3].

PRINCIPLES OF THE PROCEDURE

REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control is designed as an external independent sample for use with laboratory testing of *Chlamydia trachomatis* and *Neisseria gonorrhoeae* nucleic acid targets, according to ISO 15189 and CLIA regulations.

REAGENTS

Cat. No RED-12-M2; 1 vial formulated with inactivated native *Chlamydia trachomatis, Neisseria gonorrhoeae* and human fibroblast cells.

NOTE: REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control contains a suspension of cells in an alcohol solution and thus, may exhibit slight cloudiness.

LIMITATIONS OF THE PROCEDURE

REDx™ CONTROLS MUST NOT BE SUBSTITUTED FOR THE POSITIVE AND NEGATIVE CONTROL REAGENTS PROVIDED WITH THE MANUFACTURED TEST KITS.

TEST PROCEDURES and INTERPRETATION OF RESULTS provided by manufacturers of test kits must be followed closely.

Deviations from procedures recommended by test kit manufacturers may produce unreliable results.

REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control DOES NOT HAVE AN ASSIGNED VALUE and may not be suitable for use with all *Chlamydia trachomatis* and *Neisseria gonorrhoeae* test kits and procedures. Procedures for implementing a quality assurance program and monitoring test performance on a routine basis must be established by each individual laboratory. Each laboratory should establish its own range of acceptable values[2,3].

Controls are not calibrators and should not be used for assay calibration.

REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control is recommended for use with NATs only.

Adverse shipping and storage conditions or use of outdated samples may produce erroneous results.

REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control might not be suitable for NATs without an extraction step.

WARNINGS AND PRECAUTIONS

For IVD use.

For Professional and Trained Laboratory Personnel Use Only

WARNING: Handle controls as if they are capable of transmitting infectious agents. REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control is manufactured from non-infectious cells that are grown in tissue culture and preserved in a buffered solution.

Safety Precautions

1. Raw materials used for REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control are inactivated.
2. Use Centers for Disease Control and Prevention (CDC) recommended universal precautions for handling the samples and human specimens[4].
3. REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control must be disposed of by following RCRA ID#D001 guidelines for ignitable waste[5].
4. Do not pipette by mouth; do not smoke, eat or drink in areas where specimens are being handled. Clean any spillage by immediately wiping up with 0.5% sodium hypochlorite solution. Dispose of all specimens, controls, and materials used in testing as though they contain infectious agents.
5. Keep REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control vial closed when not in use. Avoid direct inhalation of the solution and use with ventilation.

HANDLING PRECAUTIONS

1. Do not use controls beyond the expiration date.
2. Avoid contamination of controls when opening and closing the vials.
3. REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control contains a FLAMMABLE liquid; keep away from all sources of ignition.
4. REDx™ *Chlamydia trachomatis and Neisseria gonorrhoeae* Positive Control is intended for SINGLE USE ONLY and must be used as provided. Any modification, including dilution is not recommended and may compromise the product performance.

STORAGE INSTRUCTIONS

Store REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control at 2-8°C until use.

Once opened, REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control should not be reused. Store vials upright to prevent leakage.

MATERIALS PROVIDED

REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control – 1mL vial

MATERIALS REQUIRED, BUT NOT PROVIDED

Refer to the instructions supplied by the test kit manufacturer for guidance on how to use the REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control.

PROCEDURE

Before use, the REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control should be thoroughly mixed by vortexing for 30 seconds. When including the REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control in a test run, the exact same procedure for unknown specimens collected in a liquid-based transport medium or swab-based collection device must be used. For protocols describing urine testing methods, the product should substitute an equal volume of urine. For protocols describing swab-based testing methods, the product should be pipetted into the sample transport tube or cartridge as per the test manufacturers' instructions. Refer to the manufacturer's supplied instructions for use provided with the *Chlamydia trachomatis* and *Neisseria gonorrhoeae* test kit.

NOTE: Controls must NOT be substituted for the internal positive and negative controls supplied with the test kit.

Levels of reactivity of REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control may vary with different manufacturers' test kits and different kit lots. Since REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control does not have an assigned value, the laboratory must establish an acceptance range for each lot of REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control.

TROUBLESHOOTING

When REDx™ *Chlamydia trachomatis* and *Neisseria gonorrhoeae* Positive Control results are outside of the established laboratory acceptance range for internal controls, it may be an indication of unsatisfactory test performance.

Possible sources of error include deterioration of test kit reagents, operator error, faulty performance of equipment, or contamination of reagents; internal laboratory procedures should be followed.

REFERENCES

1. *Accurate Results in the Clinical Laboratory 2013, ISBN: 978-0-12-415783-5*
2. *Kinns H, Pitkin S, Housley D, et al. J Clin Pathol 2013;66:1027–1032.*
3. *Statistical Quality Sample for Quantitative Measurements: Principles and Definitions; Approved Guideline– Second Edition. NCCLS document C24-A2, 1999.*
4. *CDC Recommendations for prevention of HIV transmission in health care settings. MMWR 36 (suppl. 2), 1987.*
5. *Treatment standards for hazardous waste; 40 CFR 268.40 Subpart D. D001: Ignitable characteristics of waste.*

For assistance, contact Microbix Technical Support at +1-905-361-8910.

P/N RED-12-M2.5R1
18 February, 2026

PHONE: 905.361.8910 FAX: 905.361.8911 Toll Free (US only): 800.794.6694 www.microbix.com

265 Watline Ave.
Mississauga, ON
Canada L4Z 1P3
Tel. 905-361-8910
Fax 905-361-8911
microbix.com

CERTIFICATE OF ANALYSIS

REDx™ *Chlamydia trachomatis and Neisseria gonorrhoeae* Positive Control

Product Information

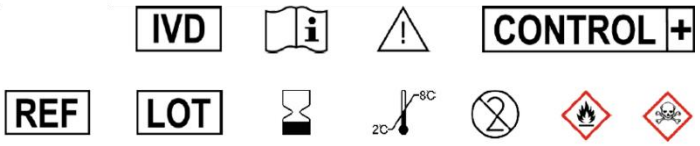
Product Name	REDx™ *Chlamydia trachomatis and Neisseria gonorrhoeae* Positive Control
Catalogue Number	RED-12-M2
Strain/Cell line	*Chlamydia trachomatis* Serovar L2, strain 434; *Neisseria gonorrhoeae,* strain B5025
Lot number	12M20018A3
Analyte Value	Unassayed. Value not assigned by the manufacturer
Product Description	Unassayed qualitative positive control for the detection of *Chlamydia trachomatis* and *Neisseria gonorrhoeae.* Contains human DNA.
Fill Volume	1.0 mL
Buffer	Aqueous solution containing methanol as a preservative
Storage conditions	2-8°C
Expiry Date	11 Jun 2028
Intended Use	For *In vitro* Diagnostic Use.

Quality Control Information

Test method	Cepheid Xpert® CT/NG Assay
Test Result	Observed Result
Chlamydia trachomatis	Positive
Neisseria gonorrhoeae	Positive
Human DNA	Positive
Inactivation	Inactivated

This product is an unassayed control. The reported QC information is not intended to represent product specifications in any commercial or lab developed test. The laboratory should establish its own analyte value and ranges.

Microbix Biosystems Inc.
265 Watline Avenue
Mississauga, Ontario, L4Z 1P3



Information Please ensure that your institution is consulted before recycling an item.



Quality Assurance Signature: **Date: 13 Oct 2026**