

# ACCURUN® 315 SERIES 400

HIV-1 RNA Positive Quality Control



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11323enGB-13 June 2026

## Explanation of symbols used in LGC Clinical Diagnostics product labeling



Upper limit of temperature



Temperature limitation



Authorized Representative in  
the European Community



Biological risks



Use By



*In Vitro* Diagnostic Medical Device



Negative control



Catalogue number



Consult instructions for use



Positive control



Batch code



Manufacturer



Control



Highly Flammable



Toxic by inhalation, in contact  
with skin and if swallowed



Health Hazard

# ACCURUN<sup>®</sup> 315 SERIES 400 HIV-1 RNA Positive Quality Control

## NAME AND INTENDED USE

ACCURUN<sup>®</sup> controls are intended to estimate laboratory testing precision and can be used to detect errors in laboratory testing procedures. ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 is formulated for use with *in vitro* diagnostic test methods that detect and quantitate HIV-1 RNA. ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 is designed for a specific range of HIV-1 RNA. Additional controls at different concentrations of HIV-1 RNA are available separately from LGC Clinical Diagnostics.

## SUMMARY

Frequent testing of independent quality control samples provides the analyst with a means of monitoring the performance of laboratory assays. Routine use of controls enables laboratories to monitor day-to-day test variation, lot-to-lot performance of test kits, and operator variation, and can assist in identifying increases in random or systematic error. A well designed quality control program can provide added confidence in the reliability of results obtained for unknown specimens. The use of independent controls may provide valuable information concerning laboratory proficiency and kit lot variation that may affect assay sensitivity<sup>1</sup>.

## PRINCIPLES OF THE PROCEDURE

ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 is designed for use with *in vitro* assay procedures for the purpose of monitoring test performance. ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 is prepared by diluting a cultured HIV-1 type B virus (8E5) in HIV-1 RNA negative defibrinated human plasma. The 8E5 virus contains an intact but defective viral genome<sup>2</sup>. ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 is nonreactive for HBsAg and antibodies to HIV 1 and HIV 2, HCV and HTLV. ACCURUN controls do not have assigned values. Specific levels of reactivity will vary among different manufacturer's assays, different procedures, different lot numbers and different laboratories.

## REAGENTS

Item No. 2020-0092 5 vials, 1.0 ml per vial

ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 contains stabilizers and 0.09% sodium azide as preservative.

## WARNINGS AND PRECAUTIONS

### For In Vitro Diagnostic Use

CAUTION: Handle ACCURUN controls and all human blood products as though capable of transmitting infectious agents. ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 is manufactured from human serum or plasma nonreactive for HBsAg and antibodies to HIV 1 and HIV 2, HCV and HTLV with current FDA licensed tests.

### Safety Precautions

Use Centers for Disease Control (CDC) recommended universal precautions for handling ACCURUN and human blood<sup>3</sup>. 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.

### Handling Precautions

Do not use ACCURUN controls beyond the expiration date. Avoid contamination of the controls when opening and closing the vials. To prevent formation of potentially explosive compounds due to reactions of sodium azide and copper or lead pipes, flush waste lines with large quantities of water.

## STORAGE INSTRUCTIONS

For maximum stability, ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 should be stored at -70°C. If preferred, vials may be stored at -20°C for up to six months. To prevent leakage, store vials upright.

## INDICATIONS OF REAGENT INSTABILITY OR DETERIORATION

Alterations in physical appearance may indicate instability or deterioration of ACCURUN controls. Solutions that are visibly turbid should be discarded.

## PROCEDURE

### Materials Provided

ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 is formulated to be reactive for HIV-1 RNA and nonreactive for HBsAg and antibodies to HIV 1 and HIV 2, HCV and HTLV.

### Materials Required but not Provided

Refer to instructions supplied by manufacturers of the test kits to be used.

### Instructions for Use

Thaw at room temperature and mix by gentle inversion before use. Once thawed, use immediately. ACCURUN controls should be included in a test run using exactly the same procedure provided by the manufacturer for unknown specimens. ACCURUN controls must NOT be substituted for the positive and negative control reagents provided with manufactured test kits.

### Quality Control

Since ACCURUN controls do not have assigned values, it is recommended that each laboratory validate the use of each lot of ACCURUN with each specific assay system prior to its routine use in the laboratory.

## INTERPRETATION OF RESULTS

Levels of reactivity of ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 may vary with different manufacturers' tests and different test kit lots. Since the control does not have an assigned value, the laboratory must establish a range for each lot of ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400. When results for ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 are outside the established acceptance range of values, 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.

## LIMITATIONS OF THE PROCEDURE

ACCURUN CONTROLS MUST NOT BE SUBSTITUTED FOR THE POSITIVE AND NEGATIVE CONTROL REAGENTS PROVIDED WITH 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. ACCURUN controls are not calibrators and should not be used for assay calibration. Performance characteristics for ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 have been established only for HIV-1 RNA. Adverse shipping and storage conditions or use of outdated controls may produce erroneous results.

## EXPECTED RESULTS

### ACCURUN 315 HIV-1 RNA POSITIVE QUALITY CONTROL SERIES 400 DOES NOT HAVE AN ASSIGNED VALUE.

Specific levels of reactivity will vary among different manufacturers' assays, different procedures, different lot numbers and different laboratories. 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. For example, the acceptable range might include all values within 2 standard deviations of the mean of 20 data points obtained in 20 runs over a period of 30 days<sup>4</sup>.

Table 1 lists typical data for ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400. Data are expressed in units as specified by the assay manufacturer and in log<sub>10</sub> transformed values. Additional controls at different concentrations are available separately from LGC Clinical Diagnostics.

## SPECIFIC PERFORMANCE CHARACTERISTICS

ACCURUN controls are designed for use with *in vitro* assay procedures for purposes of monitoring assay performance. ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400 is formulated to be reactive for HIV-1 RNA and nonreactive for HBsAg and antibodies to HIV 1 and HIV 2, HCV and HTLV. ACCURUN controls do not have assigned values. Specific levels of reactivity will vary among different manufacturers' assays, different procedures, different lot numbers, and different laboratories. Procedures for implementing a quality assurance program and monitoring test performance on a routine basis must be established by each individual laboratory.

## REFERENCES

- Green IV GA, Carey RN, Westgard JO, Carten T, Shablesky LA, Achord D, Page E, and Le AV. Quality control for qualitative assays: quantitative QC procedure designed to assure analytical quality required for an ELISA for hepatitis B surface antigen. Clin. Chem. 43:9 1618-1621, 1997.
- Folks TM, Bann S, Rabson A, Theodore T, Hoggan MD, Marting M, Lightfoote M, Sell K. Characterization of a continuous T-cell line susceptible to the cytopathic effects of the acquired immunodeficiency syndrome (AIDS) associated retrovirus. Proc. Natl. Acad. Sci. USA 82:4539-4543, 1985.
- Siegel JD, Rhinehart E, Jackson M, Chiarello L, and the Healthcare Infection Control Practices Advisory Committee, 2007 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings.
- Statistical Quality Control for Quantitative Measurements: Principles and Definitions; Approved Guideline—Fourth Edition. CLSI document C24, 2016.

Table 1. Typical data for ACCURUN 315 HIV-1 RNA Positive Quality Control Series 400.

Manufacturer	Assay	Result: Copies/ml
Roche Molecular Systems, Inc. Pleasanton, CA	COBAS <sup>®</sup> 5800/6800/8800 HIV-1	54,000
		<b>Result</b>
Abbott Laboratories Abbott Park, IL	Alinity m HIV-1 Assay	Positive
Grifols Diagnostic Solutions Inc. Emeryville, CA	Procleix <sup>®</sup> Ultrio Assay	Positive
Roche Molecular Systems, Inc. Pleasanton, CA	cobas <sup>®</sup> TaqScreen MPX Test on s201	Positive

For assistance, contact LGC Clinical Diagnostics Technical Support at +1 508.244.6400.