

ACCURUN® 21 SERIES 1000 Multi-Marker Positive Control

NAME AND INTENDED USE

ACCURUN® controls are intended for use as positive qualitative controls to monitor laboratory testing precision and detect errors in laboratory testing procedures. ACCURUN 21 Multi-Marker Positive Controls are formulated for use with *in vitro* diagnostic test kits for the detection of antibodies to Human Immunodeficiency Virus Types 1 and 2 (HIV 1 and 2) antibodies to Hepatitis B Core Antigen (HBcAg), antibodies to Hepatitis C Virus (HCV), antibodies to Hepatitis A Virus (HAV), and Hepatitis B Surface Antigen (HBsAg). This product is not intended for use in testing blood or plasma donors in the United States. ACCURUN controls do not have quantitative assigned values. For professional laboratory use only.

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 low-reactive samples as independent controls may provide valuable information concerning laboratory proficiency and kit lot variation that may affect assay sensitivity¹.

PRINCIPLES OF THE PROCEDURE

ACCURUN controls are designed for use with *in vitro* assay procedures for purposes of monitoring assay performance. ACCURUN 21 Multi-Marker Positive Controls are manufactured from human serum or plasma, including materials reactive for HBsAg and antibodies to HIV 1 and 2, HBcAg, HCV, and HAV. ACCURUN controls do not have assigned values. Examples of assay(s) with which this control may be compatible are listed in Table 1. Specific levels of reactivity will vary with different procedures, different reagent lot numbers, and different laboratories.

REAGENTS

Item No. 2000-0028

6 vials, 3.5 ml per vial

This control contains stabilizers (EDTA and buffering agents), and 0.1% ProClin® (5-chloro-2-methyl-4-isothiazolin-3-one & 2-methyl-4-isothiazolin-3-one) as preservative. Materials categorized as potentially infectious have been treated with beta-propiolactone and ultraviolet irradiation.

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 21 Multi-Marker Positive Controls are manufactured from human serum or plasma including materials reactive for HBsAg and antibodies to HIV 1 and 2, HBcAg, HCV and HAV.

Safety Precautions

Use the Centers for Disease Control (CDC) recommended universal precautions for handling ACCURUN controls and human blood². Do not pipette by mouth; do not 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. Additional safety information can be found in the product Safety Data Sheet (SDS) found on the company website.

Handling Precautions

Do not use ACCURUN controls beyond the expiration date. Avoid microbial contamination of the controls when opening and closing the vials.

STORAGE INSTRUCTIONS

Store ACCURUN 21 Multi-Marker Positive Controls at 2–8°C. Once opened, ACCURUN 21 Controls should be stored at 2–8°C and discarded after 60 days. After opening, record the date opened and the expiration date on the vial. Multiple freeze-thaw cycles are not recommended and may have variable adverse effects upon test results. To prevent leakage, store vials upright.

INDICATIONS OF REAGENT INSTABILITY OR DETERIORATION

Alterations in physical appearance may indicate instability or deterioration of ACCURUN 21 controls. Solutions that are visibly turbid should be discarded.

PROCEDURE

Materials Provided

ACCURUN 21 Multi-Marker Positive Controls are manufactured from human serum or plasma, including materials reactive for HBsAg and antibodies to HIV 1 and 2, HBcAg, HCV, and HAV. A negative control for these analytes is also available separately from LGC Clinical Diagnostics.

Materials Required but not Provided

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

Instructions for Use

Mix the contents of the vials by gentle inversion. Allow the control to reach room temperature prior to use, then return controls to refrigerated storage immediately after use. 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 licensed 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 21 Multi-Marker Positive Controls may vary with different manufacturers' tests and different test kit lots. Each laboratory must establish its own range of acceptable values for ACCURUN 21 controls with the particular test kits being used. When results for ACCURUN 21 controls are outside the established acceptable range of values, it may be an indication of unsatisfactory test performance. Possible sources of discrepancy 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. Deviations from procedures recommended by test kit manufacturers may produce unreliable results. ACCURUN controls are qualitative, not automated and are provided for quality assurance purposes and must not be used for calibration or as a primary reference preparation in any test procedure. Adverse shipping and/or storage conditions or use of outdated controls may produce erroneous results.

EXPECTED RESULTS

ACCURUN CONTROLS DO NOT HAVE AN ASSIGNED VALUE. This control is formulated to produce positive reactivity with the test kits listed in Table 1. Specific levels of reactivity will vary among different manufacturers' assays, different procedures, different lot numbers, and different laboratories. Each laboratory should establish its own range of acceptable values for each analyte. 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 days³.

SPECIFIC PERFORMANCE CHARACTERISTICS

ACCURUN controls are designed for use with *in vitro* assay procedures for purposes of monitoring assay performance. ACCURUN 21 Multi-Marker Positive Controls are manufactured from human serum or plasma including material reactive for HBsAg and antibodies to HIV 1 and 2, HBcAg, HCV, and HAV. ACCURUN 21 controls do not have assigned values. Specific levels of reactivity will vary with different procedures, different reagent 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. Quality control materials should be used in accordance with local, state, and federal regulations and accreditation requirements.

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.
- 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. ACCURUN 21 Multi-Marker Positive Control Series 1000 is tested at release using the following assays:

| Marker | Manufacturer | Product Name |
|------------|-------------------------------------|---|
| anti-HIV 1 | Siemens Healthcare Diagnostics Inc. | ADVIA Centaur® HIV Ag/Ab Combo Assay |
| anti-HIV 2 | Siemens Healthcare Diagnostics Inc. | ADVIA Centaur® HIV Ag/Ab Combo1/0/2 Assay |
| HBsAg | Siemens Healthcare Diagnostics Inc. | ADVIA Centaur® HBsAg Total Assay |
| anti-HBcAg | Siemens Healthcare Diagnostics Inc. | ADVIA Centaur® HBcT2 Assay |
| anti-HCV | Siemens Healthcare Diagnostics Inc. | ADVIA Centaur® HCV Assay |
| anti-HAV | Siemens Healthcare Diagnostics Inc. | ADVIA Centaur® HAV Total Assay |

For assistance, contact LGC Clinical Diagnostics Technical Support at +1.508.244.6400.

Any serious incident that has occurred in relation to the device shall be reported to LGC Clinical Diagnostics Technical Support and, if in use in the EU, the competent authority of the Member State in which the incident occurred.

| Date | Description of Change |
|----------------|-----------------------|
| September 2025 | Update for IVDR |

ACCURUN® 21 SERIES 1000

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Legend of all symbols used in LGC 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



Importer