



# ACCURUN® 51

Multi-Marker Hepatitis  
Positive Control 1

## About this package insert

Thank you for your interest in this ACCURUN 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 [info@seracare.com](mailto:info@seracare.com).  
By phone: US customers call 800.676.1881; International customers call collect 508.634.3359.

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



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## Explanation of symbols used in SeraCare product labeling



Harmful/Irritant

This product contains  
0.1% ProClin® 300.

R43 May cause sensitization by  
skin contact.

S24 Avoid contact with skin.

S35 This material and its  
container must be disposed  
of in a safe way.

S37 Wear suitable gloves.



Upper limit  
of temperature



Biological risks



Negative control



Positive control



Temperature  
limitation



Use By



Catalogue  
number



Batch code



"Caution, consult  
accompanying documents"



Authorized Representative in  
the European Community



In Vitro Diagnostic  
Medical Device



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

### NAME AND INTENDED USE

ACCURUN controls are intended to estimate laboratory testing precision and can be used to detect errors in laboratory testing procedures. ACCURUN® 51 Multi-Marker Hepatitis Positive Control 1 is formulated for use with *in vitro* diagnostic test kits for the qualitative determination of Hepatitis B e Antigen (HBeAg), IgM antibodies to Hepatitis B core antigen (HBc IgM), and IgM antibodies to Hepatitis A Virus (HAV IgM). This product is not intended for use in testing blood or plasma donors. A negative control for these analytes is available separately from SeraCare Life Sciences. *For In Vitro Diagnostic Use.*

### 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 sensitivity<sup>1</sup>.

### PRINCIPLES OF THE PROCEDURE

ACCURUN 51 Multi-Marker Hepatitis Positive Control 1 is designed for use with *in vitro* assay procedures for purposes of monitoring test performance. ACCURUN 51 Multi-Marker Hepatitis Positive Control 1 is manufactured from human serum or plasma reactive for HBeAg, HBc IgM, HAV IgM and HBsAg and nonreactive for antibodies to HIV 1 and 2, HTLV I and II, and HCV. ACCURUN controls do not have assigned values. This control is formulated for use in those manufacturers' assays listed in Table 1. Specific levels of reactivity will vary among different manufacturers' assays, different procedures, different lot numbers, and different laboratories.

### REAGENTS

Cat. No. A51-5001 1 vial, 5.0 ml per vial of positive control  
Cat. No. A51-5005 6 vials, 3.5 ml per vial of positive control

This control contains HBeAg, HBc IgM and HAV IgM as assayed by EIA, stabilizers (EDTA, 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 51 Multi-Marker Hepatitis Positive Control 1 is manufactured from human serum or plasma nonreactive for antibodies to HIV 1 and 2, HTLV I and II, and HCV with current FDA required tests.

#### Safety Precautions

Use the Centers for Disease Control (CDC) recommended universal precautions for handling ACCURUN controls and human blood<sup>2</sup>. 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.

#### 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 51 Multi-Marker Hepatitis Positive Control frozen at -20°C. Once thawed and opened, store refrigerated at 2-8°C and discard 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 controls. Solutions that are visibly turbid should be discarded.

### PROCEDURE

#### Materials Provided

ACCURUN 51 Multi-Marker Hepatitis Positive Control 1 is manufactured from human serum or plasma, including materials reactive for HBeAg, HBsAg, HBc IgM, and HAV IgM and nonreactive for antibodies to HIV 1 and 2, HTLV I and II, and HCV. See REAGENTS for a list of package sizes.

#### Materials Required but not Provided

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

### Instructions for Use

Allow the controls to reach room temperature prior to use, then return controls to refrigerated storage immediately after use. Mix the contents of the vials by gently swirling. 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 control with each specific assay system prior to its routine use in the laboratory.

### INTERPRETATION OF RESULTS

Levels of reactivity of ACCURUN 51 Multi-Marker Hepatitis Positive Control 1 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 51 Multi-Marker Hepatitis Positive Control 1. When results for ACCURUN 51 Multi-Marker Hepatitis Positive Control 1 are outside the established acceptable range of values, it may be an indication of unsatisfactory test performance. Possible sources of discrepancy are: 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 51 Multi-Marker Hepatitis Positive Control 1 have been established only for HBeAg, HBc IgM and HAV IgM. Adverse shipping and/or storage conditions or use of outdated controls may produce erroneous results.

### EXPECTED RESULTS

**ACCURUN 51 Multi-Marker Hepatitis Positive Control 1 DOES NOT HAVE AN ASSIGNED VALUE.** This control has been formulated for use in those manufacturers' assays listed in Table 1. Specific levels of reactivity will vary among different manufacturers' assays, 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. 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 days<sup>3</sup>.

### SPECIFIC PERFORMANCE CHARACTERISTICS

ACCURUN controls are designed for use with *in vitro* assay procedures for purposes of monitoring assay performance. ACCURUN 51 Multi-Marker Hepatitis Positive Control 1 is manufactured from human serum or plasma including materials reactive for HBeAg, HBsAg, HBc IgM, and HAV IgM, and nonreactive for antibodies to HIV 1 and 2, HTLV I and II, and HCV. ACCURUN controls do not have assigned values. Specific levels of reactivity will vary among different manufacturers' assays, 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.

### 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.
- CDC *recommendations for prevention of HIV transmission in health care settings.* MMWR 36 (supp. 2), 1987.
- Statistical Quality Control for Quantitative Measurements: Principles and Definitions;* Approved Guideline-Second Edition. NCCLS document C24-A2, 1999.

**Table 1.** ACCURUN 51 Multi-Marker Hepatitis Positive Control 1 is formulated to produce reactivity in the following manufacturers' assays.

Marker	Manufacturer/Product Name
HBeAg	DiaSorin ETI-EBK Plus
HBc IgM	Abbott ARCHITECT® CORE-M™
HAV IgM	Abbott ARCHITECT® HAVAB®-M

**For assistance, contact SeraCare Technical Support at 001.508.244.6400**

