



Audit™ MicroCV™ Cardiac Markers Linearity Set

Cat. No. **K710M-5**
Contents 5 x 1 mL

Lot No. 06008A, 06008B, 06008C,
06008D, 06008E

Expires 04/07/07

For In Vitro Diagnostic Use Only.

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INTENDED USE

Audit™ MicroCV™ Cardiac Markers Linearity Set is unassayed calibration verification material consisting of human based serum. It is intended to simulate human patient serum samples for the purpose of verifying and validating the Analytical Measurement Range (AMR) for non-waived Cardiac Markers testing methods.

SUMMARY AND PRINCIPLE

As defined in the Clinical Laboratory Improvement Amendments of 1988 (CLIA) by the Centers for Medicare and Medicaid Services (CMS) and the Centers for Disease Control (CDC), each laboratory must revalidate each test method's AMR at least every six months as well as following changes in lots of analytically critical reagents or major system components¹. Good laboratory practices require that stable reference materials be used to verify the accuracy and precision of testing methods and techniques. Audit™ MicroCV™ Cardiac Markers Linearity Set may be used as one would use human serum to verify and validate the AMR.

REAGENTS

Audit™ MicroCV™ Cardiac Markers Linearity Set is in vitro diagnostic calibration verification material composed of a human serum matrix.

WARNINGS AND PRECAUTIONS

Because this product is of human origin, it should be handled as though capable of transmitting infectious diseases. Each serum, plasma or whole blood donor unit used in the preparation of this material was tested by United States Food and Drug Administration (FDA) approved methods and found to be negative for antibodies to HIV and HCV and nonreactive for HBsAg. Because no test method can offer complete assurance that HIV, hepatitis B virus, and hepatitis C virus or other infectious agents are absent, this material should be handled as though capable of transmitting infectious diseases. This product may also contain other human source material for which there is no approved test. The FDA recommends such samples be handled at the Centers for Disease Control's Biosafety Level 2.

This product contains less than 0.1% sodium azide that may react with lead and copper plumbing to form potentially explosive metal azides. On disposal, flush with a large volume of water to prevent azide build-up.

Audit™ MicroCV™ Cardiac Markers Linearity Set is intended solely for in vitro diagnostic use for the purpose described on the labeling. Audit™ MicroControls, Inc. shall not be liable for any unclaimed damages arising from any other usage.

STORAGE AND STABILITY

Audit™ MicroCV™ Cardiac Markers Linearity Set is stored at 2-8°C and will remain stable in the unopened vial until the expiration date. After opening, the contents should be reconstituted immediately and used according to the instrument manufacturer's instructions.

When used for the purpose of verifying and validating the AMR for non-waived Cardiac Markers testing methods, it is recommended that Audit™ MicroCV™ Cardiac Markers Linearity Set be used within 5 days after reconstitution for CK-MB and Myoglobin and 24 hours after reconstitution for TnI, and stored tightly capped at 2-8°C. Leaving the vial uncapped, or prolonging its time at room temperature, will void this reconstituted stability claim. Make sure the contents of the vial are well mixed before use.

PROCEDURE

Follow the manufacturer's instructions provided for verifying and validating the AMR. Verify that the lot number on each vial matches the package insert. To avoid evaporation, do not leave the vial uncapped. Calibration verification linearity material should be run¹:

1. every six (6) months.
2. when a complete change of reagents for a procedure is introduced.
3. when there is major preventive maintenance or replacement of critical parts that may influence test performance.
4. when control materials reflect an unusual trend or shift, or are outside of the laboratory's acceptable limits.
5. when the laboratory's established schedule for verifying the reportable range for patient test results requires more frequent calibration verification.

Materials provided

- Audit™ MicroCV™ Cardiac Markers Linearity Set, 5 x 1 mL

INSTRUCTIONS FOR USE

1. Remove a vial from the package, reconstitute with 1ml of deionized water, and gently swirl occasionally for 10 minutes. Do not shake. Do not mix mechanically.
2. Refer to instrument or assay instruction manual for verifying and validating the AMR.
3. After sampling, replace stopper and return to original package at 2-8°C to obtain the maximum reconstituted stability.

CALCULATIONS OF RESULTS

Each set of Audit™ MicroCV™ Cardiac Markers Linearity Set is prepared in a manner such that an equal distance exists between each consecutive level. This dilution scheme is consistent with the NCCLS recommendation² for preparing linearity sets.

Raw data may be entered via our website (www.auditmicro.com) to obtain on-line graphs as well as statistical data, including slope and intercept, r2 values and actual vs. calculated. Call Technical Support at (866) 25-AUDIT for more information.

LIMITATIONS OF THE PROCEDURE

Audit™ MicroCV™ Cardiac Markers Linearity Set is not intended for use as routine quality control material or as calibration material.

Make sure that each vial is brought to room temperature before testing.

EXPECTED VALUES

Each lot of product is manufactured such that a linear relationship exists among levels. Actual results obtained may vary depending on instrumentation, methodology and assay temperature. Results may also be dependent on the accuracy of the instrument/reagent system calibration. The degree of acceptable non-linearity is an individual judgment based on methodology, clinical significance and medical decision levels of the test analyte.

¹Federal Register 42 CFR Part 493, Department of Health and Human Services, January 24, 2003; §493.1255, (b) (1) (ii).

²Dilution schemes are based on guidelines provided by The National Committee for Clinical Laboratory Standards (NCCLS) in approved guideline EP6-A, "Evaluation of the Linearity of Quantitative Measurement Procedures: A Statistical Approach; Approved Guideline", April 2003.

ORDERING INFORMATION

Product Number	Product Description	Product Packaging
K710M-5	Audit™ MicroCV™ Cardiac Markers Linearity Set	5 x 1 mL

Analytes Include:

	A	D
CK-MB	1.3 ng/mL	177 ng/mL
Myoglobin	27 ng/mL	689 ng/mL
Troponin-I	0.6 ng/mL	30.7 ng/mL

	E*
Troponin-I	56 ng/mL

***Level E should only be used with Troponin-I assays whose linear range exceeds 30 ng/mL.**

***Level E does not contain CK-MB or Myoglobin.**