

CVC 323

ELECTROLYTE CALIBRATION VERIFICATION CONTROLS

INTENDED USE

RNA Medical® Brand CVC 323 Calibration Verification Controls are assayed materials used for confirming the calibration and linearity of pH and electrolyte instrumentation. When used as a supplement to instrument calibration, daily QC procedures, preventative maintenance, and proper record keeping, CVC 323 will contribute to the laboratory's overall quality assurance program.

CVC 323 may be used to:

- Check analyzer linearity
- Troubleshoot analyzer problems
- Document proper calibration
- Confirm preventative maintenance
- Assist with regulatory compliance

PRODUCT DESCRIPTION

CVC 323 is a buffered aqueous solution containing pH and electrolytes. It is provided in five (5) distinct levels of pH, Na⁺, K⁺, Cl⁻, Li⁺ and Ca⁺⁺, covering the significant range of instrument performance. It is packaged in sealed glass ampuls, each containing 2.5 mL of solution. Ampuls are packaged in kits containing four (4) ampuls of each level. Each CVC 323 kit is for a single use.

CVC 323 contains no preservatives and no human or biological materials.

STORAGE AND SHELF LIFE

The expiration date stated on the CVC 323 packaging is for product stored at 2-30°C (35.6-86°F). Avoid freezing and temperatures greater than 30°C. CVC 323 solution is stable for 24 months from date of manufacture.

CONTROL VALUES AND ANALYTES

Lot specific values are provided with each box of controls. The typical values for CVC 323 are as follows:

Analyte	Low Value	High Value
pH	6.90	7.70
Na ⁺	105	175
K ⁺	2.2	9.0
Cl ⁻	70	140
Li ⁺	0.50	4.25
Ca ⁺⁺	0.55	3.00

CVC 323 SPECIFICATIONS

Packaging: 5 levels (4 ampuls per level), 2.5 mL per ampul

Storage: 20-30°C – do not freeze

Shelf Life: 24 months from date of manufacture

Matrix: Buffered aqueous solution

Analytes: pH, Na⁺, K⁺, Cl⁻, Li⁺, Ca⁺⁺

DIRECTIONS FOR USE

The basic steps for running CVC 323 are outlined below. Refer to the package insert for specific instructions.

1. Calibrate the instrument as directed by the manufacturer.
2. Sample each of the Level 1 ampuls until three (3) replicates are completed. Test Levels 2, 3, 4, and 5 the same way.
3. Record the results on the Data Collection and Linearity Worksheets included in the kit.
4. Calculate the mean value for each test analyte and compare it to the range on the Expected Values Chart.
5. Using the graphs provided, plot the test result against the expected result. Connect the points to visualize linearity.

Note: Steps 3, 4, and 5 may be performed on-line as a feature of PeerQCSM described below.

PEERQC STATISTICAL ANALYSIS

Available at www.RNAMedical.com, PeerQC provides web-based graphing and reporting for RNA Medical's Calibration Verification Controls. This easy-to-use service eliminates time-consuming manual data calculation and hand linearity graphing.

Specific features of PeerQC include:

- Instant data calculation and analysis
- Peer comparison data in *real-time*
- Printable graph and detailed report for each analyte
- Report download for archiving

ORDERING INFORMATION

Please specify this catalog number when ordering RNA Medical CVC 323 Electrolyte Calibration Verification Controls.

Catalog number: CVC 323

ADDITIONAL PRODUCTS

RNA Medical's broad line of products include blood gas controls, capillary blood collection tubes, and controls for various point-of-care tests. For further information about Electrolyte Calibration Verification Controls or any other RNA Medical product, please call us or visit our website at www.RNAMedical.com.

RNA Medical is a registered trademark and PeerQC is a registered service mark of Bionostics, Inc., Devens, MA, USA. The products described herein are covered by one or more of the following U.S. Patents and their foreign counterparts: 7,027,931; 5,558,985; 5,320,965; 5,304,491; 5,045,529; 5,013,666; 4,945,062.

INSTRUMENT REFERENCE CHART

CVC 323 Electrolyte Calibration Verification Controls

CVC 323

MANUFACTURER AND MODEL ANALYTES REPORTED BY INSTRUMENT IN CVC 323

MEDICA

EasyStat[®] pH, Na⁺, K⁺, Cl⁻, Ca⁺⁺

OPTI MEDICAL[®]

OPTI[®] LION pH, Na⁺, K⁺, Cl⁻, Ca⁺⁺

ROCHE

AVL[®] 9180 Na⁺, K⁺, Cl⁻, Li⁺, Ca⁺⁺

SIEMENS

RAPIDPOINT 350 pH, Na⁺, K⁺, Cl⁻, Ca⁺⁺

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BIOMKT-149 Rev. A
Issue Date 5/2010



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