

QC 123

BLOOD GAS CONTROL

INTENDED USE

RNA Medical® Brand **QC 123 Blood Gas Control** is an assayed quality control material used for monitoring the performance of blood gas instrumentation. It may be used on any of the blood gas testing systems listed on the back page.

PRODUCT DESCRIPTION

QC 123 is a buffered aqueous solution. It has been equilibrated with specific levels of oxygen, carbon dioxide, and nitrogen. This product contains no preservatives and no biological materials.

QC 123 is provided in convenient, ready-to-use ampuls containing 1.7 mL of solution. It is available in three (3) levels for monitoring pH, $p\text{CO}_2$, and $p\text{O}_2$ at varying points within the clinical range. Ampuls are packaged in single level boxes (30 ampuls of the same level) or multi-level boxes (10 ampuls of each level).

The fluid in each level of QC 123 is color-coded. The color allows quick visual identification by the user and aids in observation of the material as it travels through the sample path of the analyzer. The dyes used for the color-coding will not interfere with analyzer performance.

STORAGE AND SHELF LIFE

QC 123 has a shelf life of forty-eight (48) months from the date of manufacture when stored at room temperature (up to 25 °C). This product should be protected from freezing and exposure to temperatures greater than 30 °C.

STATISTICAL SUPPORT

The RNA Medical statistical service program is the new standard in inter-laboratory peer analysis. Only RNA offers true on-line data submission and reporting options in *real-time*. Monthly reports with cumulative and lot-specific peer comparison data can now be a valuable troubleshooting tool.

Specific features of the RNA program include:

- Optional on-line submission of either summary or raw data via the RNA Medical website.
- *Real-time* availability of monthly and peer comparison reports for internet submitted data, providing immediate access to statistical information.
- Error checking of data before submission to peer group, ensuring the integrity of peer comparison data.
- Customized peer group options and reports.
- Acceptance of data not previously submitted (late data).
- Reprinting and replacement of lost reports with data current to the date of submission.

CONTROL VALUES AND ANALYTES

Lot specific values are provided with each box of controls. The typical values for QC 123 are as follows:

Analyte	Level 1	Level 2	Level 3
pH	7.20	7.40	7.62
$p\text{CO}_2$ (mmHg)	58	36	20
$p\text{O}_2$ (mmHg)	61	103	143

QC 123 SPECIFICATIONS

Packaging: 1.7 mL per ampul, 30 ampuls per box.

Storage: Room temperature (up to 25 °C).

Shelf Life: 48 months from date of manufacture.

Matrix: Buffered aqueous solution.

Analytes: pH, $p\text{CO}_2$, $p\text{O}_2$.

ORDERING INFORMATION

RNA Medical can reserve a single lot of control for up to twelve (12) months. Pending availability and shelf life, additional sequestration may be possible. Automatic shipments may be arranged from a standing order on a predetermined frequency.

Please specify these catalog numbers when ordering RNA Medical QC 123 Controls.

Catalog number: **QC 123-1** (Level 1)
QC 123-2 (Level 2)
QC 123-3 (Level 3)
QC 123 (Multi-level)

ADDITIONAL PRODUCTS

RNA Medical has a broad line of blood gas and critical blood analyte control products, including Calibration Verification Controls with on-line graphing options. For further information about QC 123, Calibration Verification Controls, or any other RNA Medical product, please contact us at the number listed on the back page or visit our website at www.RNAMedical.com.

RNA Medical is a registered trademark of Bionostics, Inc., Devens, MA, USA.

INSTRUMENT REFERENCE CHART

QC 123 Blood Gas Control

QC 123

MANUFACTURER AND MODEL ANALYTES REPORTED BY INSTRUMENT IN QC 123

AADEE

AADEE ZEN pH, pCO₂, pO₂

BAYER® DIAGNOSTICS

238 pH, pCO₂, pO₂

248 pH, pCO₂, pO₂

278, 280 pH, pCO₂, pO₂

840 pH, pCO₂, pO₂

ESCHWEILER

System 2000 pH, pCO₂, pO₂

System 3000 pH, pCO₂, pO₂

INSTRUMENTATION LABORATORY

1304, 1306, 1312 pH, pCO₂, pO₂

BG3 pH, pCO₂, pO₂

1610, 1620 pH, pCO₂, pO₂

Synthesis 10 pH, pCO₂, pO₂

NOVA BIOMEDICAL

Stat Profile® 3 pH, pCO₂, pO₂

RADIOMETER

ABL® 3, 30 pH, pCO₂, pO₂

ABL 300, 330 pH, pCO₂, pO₂

ABL 4 pH, pCO₂, pO₂

ABL 5 pH, pCO₂, pO₂

ABL 50, 500, 510, 520 pH, pCO₂, pO₂

ABL 700 pH, pCO₂, pO₂

ROCHE DIAGNOSTICS

AVL 945, 947 pH, pCO₂, pO₂

AVL 990, 995 pH, pCO₂, pO₂

AVL Compact Series pH, pCO₂, pO₂

AVL OMNI® 1 pH, pCO₂, pO₂