

QC 823 RANGE

BLOOD GAS • ELECTROLYTE METABOLITE CONTROL

INTENDED USE

RNA Medical® Brand **QC 823 Range Blood Gas • Electrolyte • Metabolite Control** is an assayed quality control material used for monitoring the performance of blood gas, electrolyte, and metabolite instrumentation. It may be used on any of the multiple test analyzers or individual blood gas, electrolyte, and metabolite testing systems listed on the back page.

The analyte values in QC 823 Range are higher and/or lower than those found in the traditional three levels of daily blood gas controls. When QC 823 Range is used as a supplement to daily QC, laboratories may increase the range of values for which analyzer performance is monitored.

PRODUCT DESCRIPTION

QC 823 Range is a buffered aqueous solution containing electrolytes, glucose, and lactate. It has been equilibrated with specific levels of oxygen, carbon dioxide, and nitrogen. This product contains no preservatives and no biological materials.

QC 823 Range is provided in convenient, ready-to-use ampuls containing 2.5 mL of solution. It is available in two (2) levels for monitoring pH, $p\text{CO}_2$, $p\text{O}_2$, Na^+ , K^+ , Cl^- , Ca^{++} , Mg^{++} , glucose, and lactate at extended points within the clinical range. Ampuls are packaged in single level boxes containing thirty (30) ampuls.

STORAGE AND SHELF LIFE

QC 823 Range has a shelf life of thirty-six (36) months from the date of manufacture when stored at 2-8 °C. It may be stored at room temperature (up to 25 °C) for nine (9) months, not exceeding the stated expiration date. 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 823 Range are as follows:

Analyte	Level 0	Level 5
pH	6.85	7.80
$p\text{CO}_2$ (mmHg)	87	15
$p\text{O}_2$ (mmHg)	22	465
Na^+ (mmol/L)	90	170
K^+ (mmol/L)	11.3	1.6
Cl^- (mmol/L)	70	135
Ca^{++} (mmol/L)	3.10	0.25
Mg^{++} (mmol/L)	2.20	0.15
Glucose (mg/dL)	450	0
Lactate (mmol/L)	17.0	12.0

QC 823 RANGE SPECIFICATIONS

Packaging: 2.5 mL per ampul, 30 ampuls per box.

Storage: 2-8 °C (room temperature for up to 9 months).

Shelf Life: 36 months from date of manufacture.

Matrix: Buffered aqueous solution.

Analytes: pH, $p\text{CO}_2$, $p\text{O}_2$, Na^+ , K^+ , Cl^- , Ca^{++} , Mg^{++} , glucose, and lactate.

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 823 Range Controls.

Catalog number: QC 823-0 (Level 0)
QC 823-5 (Level 5)

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 823 Range, 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. The products described herein are covered by one or more of the following U.S. Patents and their foreign counterparts: 5,558,985; 5,320,965; 5,304,491; 5,045,529; 5,013,666; 4,945,062; 4,843,013; 4,753,888.

INSTRUMENT REFERENCE CHART
QC 823 Range Blood Gas
Electrolyte • Metabolite Control

QC 823 RANGE

MANUFACTURER AND MODEL

ANALYTES REPORTED BY INSTRUMENT IN QC 823 RANGE

BAYER® DIAGNOSTICS

238	pH, pCO ₂ , pO ₂
248	pH, pCO ₂ , pO ₂
278, 280	pH, pCO ₂ , pO ₂
288	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺
840, 845, 850, 855, 860, 865	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺ , Glucose, Lactate
634	pH, Ca ⁺⁺
614, 644	Na ⁺ , K ⁺ , Cl ⁻

INSTRUMENTATION LABORATORY

1304, 1306, 1312	pH, pCO ₂ , pO ₂
BG3	pH, pCO ₂ , pO ₂
BGE	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Ca ⁺⁺
1610, 1620, 1630, 1640, 1650	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺
Synthesis 10, 15, 20, 25, 30, 35	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺ , Glucose

NOVA BIOMEDICAL

Stat Profile® 1-9	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺ , Glucose, Lactate
Stat Profile 10	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Glucose, Lactate
Stat Profile Ultra A-M	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺ , Mg ⁺⁺ , Glucose, Lactate
Nova 8	Na ⁺ , K ⁺ , Ca ⁺⁺ , Mg ⁺⁺

RADIOMETER

ABL® 3, 30	pH, pCO ₂ , pO ₂
ABL 300, 330	pH, pCO ₂ , pO ₂
ABL 4	pH, pCO ₂ , pO ₂ , K ⁺
ABL 5	pH, pCO ₂ , pO ₂
ABL 50, 500, 505, 510, 520	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺
ABL 600, 605, 610, 615, 620, 625	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺ , Glucose, Lactate
ABL 700, 705, 710, 715, 720, 725	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺ , Glucose, Lactate
EML 100, 105	Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺ , Glucose, Lactate
ICA, KNA 1	Ca ⁺⁺ , Na ⁺ , K ⁺
KNA 2	Na ⁺ , K ⁺

ROCHE DIAGNOSTICS

AVL 945, 947	pH, pCO ₂ , pO ₂
AVL 990, 995	pH, pCO ₂ , pO ₂
AVL Compact	pH, pCO ₂ , pO ₂
AVL OMNI® 1-9	pH, pCO ₂ , pO ₂ , Na ⁺ , K ⁺ , Cl ⁻ , Ca ⁺⁺ , Glucose, Lactate

YELLOW SPRINGS INSTRUMENTS

2300 Stat Plus	Glucose, Lactate
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800-533-6162 • www.RNAMedical.com

RNA Medical, Division of Bionostics, Inc.
 7 Jackson Road, Devens, MA 01434
 Tel (978) 772-9070 • Fax (978) 772-9071

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