QC 253 FULL RANGE CO-OXIMETER CONTROL

INTENDED USE

RNA Medical[®] Brand QC 253 *Full Range CO-Oximeter Control* is an assayed quality control material used for monitoring the measurements of total hemoglobin and hemoglobin fractions on CO-Oximeter instrumentation. QC 253 provides an alternative for those needing a control that parallels the human physiologic range for tHb, O₂Hb, and COHb. It may be used on stand-alone CO-Oximeters or any of the blood gas testing systems measuring total hemoglobin and hemoglobin fractions listed on the back page.

PRODUCT DESCRIPTION

QC 253 is a purified bovine hemoglobin solution that has been treated with compressed air and precise concentrations of carbon monoxide. This control contains no preservatives and no human-based materials. It is considered good laboratory practice to follow the recommended "Universal Precautions" when handling any blood product.

QC 253 is provided in convenient, ready-to-use ampuls containing 1.2 mL of solution. It is available in three (3) levels of total hemoglobin, oxyhemoglobin, and carboxyhemoglobin for monitoring CO-Oximeter performance at varying points within the clinical range; it also contains methemoglobin. Ampuls are packaged in single level boxes (30 ampuls of the same level) or multi-level boxes (10 ampuls of each level).

STORAGE AND SHELF LIFE

QC 253 has a shelf life of eighteen (18) months from the date of manufacture when stored at 2-8 °C. This product should be protected from freezing and exposure to temperatures greater than 8 °C.

CONTROL VALUES AND ANALYTES

Lot specific values are provided with each box of controls. The typical target values for QC 253 are as follows:

Analyte	Level 1	Level 2	Level 3
tHb (g/dL)	8.0	13.5	17.0
O ₂ Hb (%)	93.0	77.5	52.0
CŌHb (%)	6.0	20.0	49.0
MetHb (%)	0.5	0.5	0.5
Vol O ₂ (%)	10.9	15.1	13.2
$O_2Ct (mL/dL)$	11.4	15.6	14.2
RHb or HHb (%)	0.0	0.0	0.0

QC 253 SPECIFICATIONS

Packaging:	1.2 mL per ampul, 30 ampuls per box
Storage:	2-8 °C
Shelf Life:	18 months from date of manufacture
Matrix:	Bovine hemoglobin solution
Analytes:	tHb, O2Hb, COHb, MetHb, Vol O2 (O2Ct), and RHB (HHb)

PEERQC® STATISTICAL ANALYSIS

RNA has been providing peer statistics for over twenty years and, in 1999, was the first to introduce on-line data submission and reporting in real-time.

PeerQC is provided free of charge for use with RNA quality control products and features:

- Data submission and reporting via the RNA Medical website (www.RNAMedical.com)
- Real-time generation of monthly and peer comparison reports
- Patented error prevention technology to ensure peer group integrity
- Ability to add, edit, or print data submitted in prior months
- Automatic unit conversion for alternate unit submittals
- Web interface supporting multiple languages

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 253 Controls.

Catalog number:	QC 253-1	(Level 1)
	QC 253-2	(Level 2)
	QC 253-3	(Level 3)
	QC 253	(Multi-level)

ADDITIONAL PRODUCTS

RNA Medical offers a full line of blood gas and CO-Oximetry controls, calibration verification materials, capillary blood collection tubes, and quality control materials for various point-of-care tests. For further information about QC 253 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.



QC 253

MANUFACTURER AND MODEL

ANALYTES REPORTED BY INSTRUMENT IN CVC 253

IL®	
482	tHb, O ₂ Hb, COHb, MetHb, Vol O ₂ , RHb
682	tHb, O_2 Hb, COHb, MetHb, Vol O_2 , RHb
Synthesis Series	tHb, O ₂ Hb, COHb, MetHb
GEM OPL [®]	tHb, O ₂ Hb, COHb, MetHb
GEM 4000	tHb, O_2 Hb, COHb, MetHb
ITC®	
AVOXimeter [®] 1000E	tHb, O ₂ Hb
AVOXimeter 4000	tHb, O_2 Hb, COHb, MetHb
NOVA	
CCX	tHb, O ₂ Hb, COHb, MetHb
CCA	
RADIOMETER®	
OSM [®] 3	tHb, HbO ₂ Sat (sO ₂), HbO ₂ , HbCO, MetHb, O ₂ Ct
ABL [®] 500 Series	tHb, HbO ₂ , HbCO, MetHb
ABL 600 Series	tHb, HbO ₂ , HbCO, MetHb
ABL 700 Series	tHb, HbO ₂ , HbCO, MetHb
ABL 80 Series	tHb, HbO ₂ , HbCO, MetHb
ABL 800 Series	tHb, HbO ₂ , HbCO, MetHb
NPT 7	tHb, HbO_2 , HbCO, MetHb
ROCHE®	
Roche OMNI [®] Series	tHb, COHb, MetHb, O ₂ Hb, RHb (HHb)
SIEMENS [®] (BAYER) [®]	
400 Series	tHb, O ₂ Hb, COHb, MetHb
800 Series	tHb, O_2 Hb, COHb, MetHb, HHb
1200 Series	tHb, O_2 Hb, COHb, MetHb
1200 Jelles	

Synthesis is a trademark and GEM and OPL are registered trademarks of Instrumentation Laboratory, Bedford, MA, USA. AVOX is a registered trademark of International Technidyne Corporation, Edison, NJ, USA. ABL and OSM are registered trademarks of Radiometer Medical APS Corporation, Bronshoj, Denmark. Roche OMNI is a registered trademark of Roche Diagnostics GMBH, Mannheim, Germany. Siemens is a registered trademark of Siemens Aktiengesellschaft FED REP GERMANY Wittelsbacherplatz 2 80333 München FED REP GERMANY. Bayer is a registered trademark of Bayer AG, Leverkusen, Germany.

BIOMKT-0013 Rev. C 8/2011

abacus dx



RNA Medical, Division of Bionostics, Inc. • 7 Jackson Road • Devens, MA 01434 USA (800)533-6162 • (978)772-9070 • Fax (978)772-9071 www.RNAMedical.com

Distributed by Abacus dx

1800 ABACUS (AUS) 0800 222 170 (NZ) | info@abacusdx.com | www.abacusdx.com