

## **BLOOD GAS CONTROL - LEVEL 3 (BG CONTROL 3)**

**CAT. NO.** BG5003**LOT NO.** 185BG**SIZE:** 30 x 1.8 ml**EXPIRY:** 2020-03-28**GTIN:** 05055273227123

### **INTENDED USE**

This product is intended for *in vitro* diagnostic use, in the quality control of Blood Gas analysis.

### **DEVICE DESCRIPTION**

The Blood Gas Controls are supplied at 3 levels, 1, 2 and 3. Target values and ranges are supplied for the following analytes: Calcium, Chloride, Glucose, Lactate, PCO<sub>2</sub>, pH, pO<sub>2</sub>, Potassium, Sodium and Total CO<sub>2</sub>.

### **SAFETY PRECAUTIONS AND WARNINGS**

For *in vitro* diagnostic use only. Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents. Health and Safety Data Sheets are available on request.

### **STORAGE AND STABILITY**

**UNOPENED:** The product is stable to expiration date when stored at +2°C to +8°C. Avoid exposure to freezing and temperatures greater than +30°C.

**OPENED:** For pH/blood gas values, the control should be analysed within 1 minute of opening. For electrolyte measurements, the control should be analysed within 1 hour after opening.

### **PREPARATION FOR USE**

The Blood Gas Control should be brought to +20°C to +23°C before use. Allow at least 4 hours for ampoules to equilibrate to this temperature, prior to testing. Before use, hold the ampoule at the top and bottom (with forefinger and thumb) and shake 15 - 20 times to mix the solution. Tap the ampoule to restore the liquid to the bottom of the ampoule. Open the ampoule by snapping off the tip at the score. Use gauze, tissue, gloves or an appropriate ampoule opener to protect fingers from cuts. Immediately introduce the liquid from the ampoule to the analyser.

### **MATERIALS PROVIDED**

Blood Gas Control - Level 3 30 x 1.8 ml

### **ASSIGNED VALUES**

Each batch of Blood Gas Control is submitted to a number of external laboratories and values are assigned from a consensus of results obtained by these laboratories.

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Range					
Analyte	unit	Target	low	high	methods
Calcium	mmol/l	0.710	0.639	0.781	Ion selective electrode
	mg/dl	2.85	2.56	3.14	
Chloride	mmol/l	123	113	133	ISE indirect
Glucose	mmol/l	14.3	12.2	16.4	Enzymatic Electrode
	mg/dl	258	220	296	
	mmol/l	14.2	12.1	16.3	Glucose oxidase
	mg/dl	256	218	294	
	mmol/l	13.9	11.8	16.0	Ion selective electrode
	mg/dl	250	213	287	
Lactate	mmol/l	1.07	0.877	1.26	Enzymatic Electrode
	mg/dl	9.64	7.90	11.4	
	mmol/l	1.08	0.886	1.27	Ion selective electrode
	mg/dl	9.73	7.98	11.5	
pCO <sub>2</sub>	kPa	3.02	2.42	3.62	Ion selective electrode
	kPa	3.14	2.51	3.77	
pH	pH units	7.524	7.449	7.599	Ion selective electrode
pO <sub>2</sub>	kPa	19.5	16.6	22.4	
	kPa	18.9	16.1	21.7	Optical Fluorescence
Potassium	mmol/l	6.22	5.72	6.72	ISE method - direct
Sodium	mmol/l	160	152	168	ISE method - direct
Total CO <sub>2</sub>	mmol/l	19.0	15.2	22.8	Ion selective electrode
	mmol/l	19.7	15.8	23.6	