

## BLOOD GAS CONTROL - LEVEL I (BG CONTROL I)

**CAT. NO.** BG5001                      **LOT NO.** 248BG  
**SIZE** 30 x 1.8 ml                      **EXPIRY:** 2023-09-28

**GTIN:** 05055273227109

### 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 I    30 x 1.8 ml

### ASSIGNED VALUES

Due to the variation caused by test equipment, test reagents and laboratory technique, the quoted ranges are provided for guidance. It is recommended that these ranges are used until each laboratory has established its own ranges, based on individual laboratory requirements.

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.

EC	REP
----	-----

Randox Teoranta, Meenmore,  
Dungloe, Donegal,  
F94 TV06, Ireland

29 Mar '22 me

## BLOOD GAS CONTROL - LEVEL 1 (BG CONTROL 1)

Cat. No. BG5001 Lot. No. 248BG Size 30 x 1.8ml Expiry 2023-09-28

Analyte	unit	Target	Range		methods
			low	high	
Calcium	mmol/l	1.94	1.75	2.13	Ion selective electrode
	mg/dl	7.78	7.01	8.55	
	mmol/l	1.93	1.74	2.12	Colorimetric
	mg/dl	7.74	6.97	8.51	
	mmol/l	1.94	1.75	2.13	Optical Fluorescence
	mg/dl	7.78	7.01	8.55	
Chloride	mmol/l	80.6	74.2	87.0	Colorimetric
	mmol/l	78.5	72.2	84.8	ISE indirect
Glucose	mmol/l	2.05	1.74	2.36	Enzymatic Electrode
	mg/dl	36.9	31.4	42.4	
	mmol/l	2.06	1.75	2.37	Glucose oxidase
	mg/dl	37.1	31.5	42.7	
	mmol/l	1.85	1.57	2.13	Colorimetric
	mg/dl	33.3	28.3	38.3	
Lactate	mmol/l	7.18	5.89	8.47	Enzymatic Electrode
	mg/dl	64.7	53.1	76.3	
	mmol/l	6.76	5.54	7.98	Colorimetric
pCO2	mmol/l	60.9	49.9	71.9	
	kPa	9.38	7.50	11.3	Ion selective electrode
	kPa	9.16	7.33	11.0	Optical Fluorescence
pH	pH units	7.13	7.02	7.24	Ion selective electrode
pO2	kPa	13.8	11.7	15.9	Ion selective electrode
	kPa	12.3	10.5	14.1	Optical Fluorescence
Potassium	mmol/l	2.59	2.38	2.80	ISE method - direct
Sodium	mmol/l	124	118	130	ISE method - direct
Total CO2	mmol/l	24.8	19.8	29.8	Ion selective electrode
	mmol/l	25.0	20.0	30.0	Calculated