

BLOOD GAS CONTROL - LEVEL I (BG CONTROL I)

CAT. NO. BG500I **LOT NO.** 216BG
SIZE: 30 x 1.8 ml **EXPIRY:** 2022-05-28
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, PCO₂, pH, pO₂, Potassium, Sodium and Total CO₂.

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

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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Blood Gas Control LEVEL 1 (BG CONTROL 1)

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Range					
Analyte	unit	Target	low	high	methods
Calcium	mmol/l	1.77	1.59	1.95	Ion selective electrode
	mg/dl	7.09	6.37	7.81	
Chloride	mmol/l	75.1	69.1	81.1	ISE indirect
Glucose	mmol/l	2.06	1.75	2.37	Enzymatic Electrode
	mg/dl	37.1	31.5	42.7	
	mmol/l	2.07	1.76	2.38	Glucose oxidase
	mg/dl	37.3	31.7	42.9	
Lactate	mmol/l	7.28	5.97	8.59	Enzymatic Electrode
	mg/dl	65.6	53.8	77.4	
	mmol/l	6.33	5.19	7.47	Colorimetric
	mg/dl	57.0	46.8	67.2	
pCO ₂	kPa	10.6	8.48	12.7	Ion selective electrode
	kPa	10.8	8.64	13.0	Optical Fluorescence
pH	pH units	7.093	7.015	7.171	Ion selective electrode
pO ₂	kPa	11.5	9.78	13.2	Ion selective electrode
	kPa	9.77	8.30	11.2	Optical Fluorescence
Potassium	mmol/l	2.50	2.30	2.70	Enzymatic
	mmol/l	2.40	2.21	2.59	ISE method - direct
Sodium	mmol/l	115	109	121	ISE method - direct
Total CO ₂	mmol/l	26.0	20.8	31.2	Ion selective electrode
	mmol/l	25.9	20.7	31.1	Calculated