

BLOOD GAS CONTROL - LEVEL I (BG CONTROL I)

CAT. NO. BG5001

LOT NO. 228BG

SIZE: 30 x 1.8 ml

EXPIRY: 2021-12-28

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)

Cat. No. BG5001 Lot No. 2&, BG Size: 30 x 1.8 ml Expiry: 2021-08-28

Analyte	unit	Target	Range		methods	
			low	high		
Calcium	mmol/l	1.76	1.58	1.94	Ion selective electrode	
	mg/dl	7.05	6.33	7.77		
Chloride	mmol/l	78.7	72.4	85.0	ISE indirect	
Glucose	mmol/l	2.18	1.85	2.51	Enzymatic Electrode	
	mg/dl	39.3	33.3	45.3		
	mmol/l	2.18	1.85	2.51	Glucose oxidase	
	mg/dl	39.3	33.3	45.3		
Lactate	mmol/l	2.18	1.85	2.51	Ion selective electrode	
	mg/dl	39.3	33.3	45.3		
	Lactate	mmol/l	7.41	6.08	8.74	Enzymatic Electrode
		mg/dl	66.8	54.8	78.8	
mmol/l		7.79	6.39	9.19	Ion selective electrode	
mg/dl	70.2	57.6	82.8			
pCO ₂	kPa	10.7	8.56	12.8	Ion selective electrode	
	kPa	10.5	8.40	12.6	Optical Fluorescence	
pH	pH units	7.094	7.023	7.165	Ion selective electrode	
pO ₂	kPa	13.3	11.3	15.3	Ion selective electrode	
	kPa	11.3	9.61	13.0	Optical Fluorescence	
Potassium	mmol/l	2.43	2.24	2.62	ISE method - direct	
Sodium	mmol/l	121	115	127	ISE method - direct	
Total CO ₂	mmol/l	26.1	20.9	31.3	Ion selective electrode	
	mmol/l	26.3	21.0	31.6	Calculated	