BLOOD GAS CONTROL - LEVEL 1 (BG CONTROL 1)

CAT. NO. BG5001 **LOT NO.** 237BG
SIZE: 30 x 1.8 ml **EXPIRY:** 2023-01-28

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_2, pH, pO_2, Potassium, Sodium and Total CO_2.

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 1 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	1.75	1.58	1.93	Ion selective electrode
	mg/dl	7.01	6.33	7.69	
	mmol/l	1.77	1.59	1.95	Optical Fluorescence
	mg/dl	7.09	6.37	7.81	
Chloride	mmol/l	74.8	68.8	80.8	ISE indirect
Glucose	mmol/l	2.13	1.81	2.45	Enzymatic Electrode
	mg/dl	38.4	32.6	44.2	
	mmol/l	2.15	1.83	2.47	Glucose oxidase
	mg/dl	38.7	33.0	44.4	
Lactate	mmol/l	8.23	6.75	9.71	Enzymatic Electrode
	mg/dl	74.2	60.8	87.6	
	mmol/l	7.30	5.99	8.61	Colorimetric
	mg/dl	65.8	54.0	77.6	
pCO2	kPa	10.6	8.48	12.7	Ion selective electrode
	kPa	10.7	8.56	12.8	Optical Fluorescence
pH	pH units	7.164	7.102	7.226	Ion selective electrode
pO2	kPa	13.4	11.4	15.4	Ion selective electrode
	kPa	12.0	10.2	13.8	Optical Fluorescence
Potassium	mmol/l	2.42	2.23	2.61	ISE method - direct
	mmol/l	2.43	2.24	2.62	Optical Fluorescence
Sodium	mmol/l	122	116	128	ISE method - direct
	mmol/l	122	116	128	Optical Fluorescence
Total CO2	mmol/l	30.4	24.3	36.5	Ion selective electrode
	mmol/l	30.5	24.4	36.6	Calculated