BLOOD GAS CONTROL - LEVEL 3 (BG CONTROL 3)

CAT. NO. BG5003 **LOT NO.** 252BG
SIZE: 30 x 1.8 ml **EXPIRY:** 2023-09-28

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_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 3 30 x 1.8 ml

ASIGNED 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.

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			Range		
Analyte	**unit**	**Target**	**low**	**high**	**methods**
Calcium	mmol/l	0.698	0.628	0.768	Ion selective electrode
	mg/dl	2.80	2.52	3.08	
	mmol/l	0.652	0.587	0.717	Colorimetric
	mg/dl	2.61	2.35	2.87	
Chloride	mmol/l	127	117	137	Colorimetric
	mmol/l	123	113	133	ISE indirect
Glucose	mmol/l	14.7	12.5	16.9	Enzymatic Electrode
	mg/dl	265	225	305	
	mmol/l	14.6	12.4	16.8	Glucose oxidase
	mg/dl	263	223	303	
Lactate	mmol/l	1.03	0.845	1.22	Enzymatic Electrode
	mg/dl	9.28	7.61	11.0	
	mmol/l	0.940	0.771	1.11	Colorimetric
	mg/dl	8.47	6.95	9.99	
pCO2	kPa	3.12	2.50	3.74	Ion selective electrode
	kPa	3.08	2.46	3.70	Optical Fluorescence
pH	pH units	7.521	7.468	7.574	Ion selective electrode
pO2	kPa	19.6	16.7	22.5	Ion selective electrode
	kPa	19.5	16.6	22.4	Optical Fluorescence
Potassium	mmol/l	6.15	5.66	6.64	ISE method - direct
	mmol/l	6.10	5.61	6.59	Optical Fluorescence
Sodium	mmol/l	165	157	173	ISE method - direct
	mmol/l	161	153	169	Optical Fluorescence
Total CO2	mmol/l	19.8	15.8	23.8	Ion selective electrode
	mmol/l	19.9	15.9	23.9	Calculated
	mmol/l	20.0	16.0	24.0	Optical Fluorescence

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