

BLOOD GAS CONTROL - LEVEL 3 (BG CONTROL 3)

CAT. NO. BG5003

LOT NO. 214BG

SIZE: 30 x 1.8 ml

EXPIRY: 2022-02-28

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, 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 3 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	0.684	0.616	0.752	Ion selective electrode
	mg/dl	2.74	2.47	3.01	
Chloride	mmol/l	126	116	136	ISE indirect
Glucose	mmol/l	14.3	12.2	16.4	Hexokinase
	mg/dl	258	220	296	
	mmol/l	14.5	12.3	16.7	Enzymatic Electrode
	mg/dl	261	222	300	
Lactate	mmol/l	0.966	0.792	1.14	Enzymatic Electrode
	mg/dl	8.70	7.14	10.3	
	mmol/l	0.836	0.686	0.986	Colorimetric
	mg/dl	7.53	6.18	8.88	
pCO ₂	kPa	3.28	2.62	3.94	Ion selective electrode
	kPa	3.28	2.62	3.94	Optical Fluorescence
pH	pH units	7.492	7.383	7.601	Ion selective electrode
pO ₂	kPa	19.9	16.9	22.9	Ion selective electrode
	kPa	19.9	16.9	22.9	Optical Fluorescence
Potassium	mmol/l	6.01	5.53	6.49	Enzymatic
	mmol/l	6.11	5.62	6.60	ISE method - direct
Sodium	mmol/l	160	152	168	ISE method - direct
Total CO ₂	mmol/l	19.6	15.7	23.5	Ion selective electrode
	mmol/l	19.5	15.6	23.4	Calculated