BLOOD GAS CONTROL - LEVEL 2 (BG CONTROL 2)

CAT. NO. BG5002 **LOT NO.** 291BG
SIZE: 30 x 1.8 ml **EXPIRY:** 2025-06-28
GTIN: 05055273227116

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.

Not suitable for instruments that do not recommend products with artificial dye.

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 2 30 x 1.8 ml

ASSIGNED 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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Table of Content

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RANDOX

Method

Blood Gas Control - Level 2 (BG CONTROL 2)

Lot. No: 291BG Cat. No: BG5002 Expiry: 2025-06-28

Size: 30 x 1.8 ml

			Range				
Analyte	**Unit**	**Target**	**Low**	**High**	**1SD**	**2SD**	**Method**
Calcium	mg/dl	4.09	3.68	4.50	0.205	0.410	Colorimetric
	mmol/l	1.02	0.918	1.12	0.050	0.100	
	mg/dl	4.17	3.75	4.59	0.210	0.420	Ion Selective Electrode
	mmol/l	1.04	0.936	1.14	0.050	0.100	
Chloride	mmol/l	91.9	84.5	99.3	3.70	7.40	ISE Indirect
Glucose	mg/dl	90.5	76.9	104	6.75	13.5	Colorimetric
	mmol/l	5.02	4.27	5.77	0.375	0.750	
	mg/dl	90.5	76.9	104	6.75	13.5	Enzymatic Electrode
	mmol/l	5.02	4.27	5.77	0.375	0.750	
	mg/dl	90.3	76.8	104	6.85	13.7	Glucose Oxidase
	mmol/l	5.01	4.26	5.76	0.375	0.750	
	mg/dl	90.6	77.0	104	6.70	13.4	Hexokinase
	mmol/l	5.03	4.28	5.78	0.375	0.750	
Lactate	mg/dl	30.5	25.0	36.0	2.75	5.50	Colorimetric
	mmol/l	3.38	2.77	3.99	0.305	0.610	
	mg/dl	33.4	27.4	39.4	3.00	6.00	Enzymatic Electrode
	mmol/l	3.71	3.04	4.38	0.335	0.670	
	mg/dl	30.5	25.0	36.0	2.75	5.50	Optical Fluorescence
	mmol/l	3.39	2.78	4.00	0.305	0.610	
pCO2	kPa	5.36	4.29	6.43	0.535	1.07	Ion Selective Electrode
	kPa	5.15	4.12	6.18	0.515	1.03	Optical Fluorescence
pO2	kPa	17.3	13.8	20.8	1.75	3.50	Ion Selective Electrode
	kPa	16.9	13.5	20.3	1.70	3.40	Optical Fluorescence
Potassium	mmol/l	3.89	3.58	4.20	0.155	0.310	ISE method - direct
Sodium	mmol/l	140	133	147	3.50	7.00	ISE method - direct

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All enzyme values are quoted to a temperature of 37°C, unless otherwise stated