



## Blood Gas EQA

### INTENDED USE

Weqas Blood Gas EQA samples are for in-vitro diagnostic use as an external quality assessment material for testing of Blood Gases, Electrolytes and Metabolites.

### SUMMARY

External Quality Assessment (EQA) or proficiency Testing (PT) is an essential part of providing quality laboratory diagnostic services, and participation in EQA is required for laboratory accreditation to ISO 15189 and ISO 17025. EQA is the inter laboratory comparison and performance evaluation that extends throughout all phases of the healthcare diagnostic testing cycle.

### PRODUCT DESCRIPTION

Weqas Blood Gas EQA samples are 2.5 mL ampoules prepared using salts in a physiologically buffered matrix, containing purified bovine albumin. Tonometry with predetermined levels of oxygen and carbon dioxide balanced with nitrogen and different salt concentrations provide six distinct levels for each parameter, simulating clinically significant ranges of acid-base and electrolyte balance, respiratory function, renal function, glucose and lactate concentration. Weqas Blood Gas EQA samples contain no preservatives, viscosity adjusters or other additives that might adversely affect electrode measurements.

### STORAGE AND STABILITY

Weqas Blood Gas EQA samples are stable at room temperature for the two weeks of the distribution. For long term storage the samples should be stored in a refrigerator between 2 – 8°C. Prior to analysis the samples must be brought to room temperature.

After opening the ampoule it is stable for less than 2 minutes.

#### Haematocrit Material

Store at 2 – 8°C. Samples are stable at room temperature for 10 days and 2 minutes after opening of the ampoule.

### PROCEDURE

Please refer to accompanying instruction sheet for full details on sampling procedure.

**Always wear gloves to avoid contamination.**

### LIMITATIONS OF PROCEDURE

The Weqas Blood Gas EQA samples require storage as described in STORAGE AND STABILITY and handling as described in PROCEDURE and accompanying instruction sheet.

Accurate and reproducible results are dependent upon properly functioning instruments and reagents and the use of correct procedures.

### APPROXIMATE RANGE COVERED

The Weqas Blood Gas EQA samples cover a relevant pathological and analytical range as outlined below.

Analyte	Approx Range
pH	7.0 – 7.7
H <sup>+</sup>	20 – 100 nmol/L
pCO <sub>2</sub>	2 – 10 kPa
pO <sub>2</sub>	4 – 25 kPa
Actual Bicarbonate	20 – 30 mmol/L
TCO <sub>2</sub>	15 - 35 mmol/L
Sodium	115 -160 mmol/L
Potassium	2 – 6 mmol/L
Chloride	76 – 123 mmol/L
Magnesium	0.4 – 1.6 mmol/L
Lithium	0.35 – 1.35 mmol/L
Ionized Calcium	0.2 – 1.8 mmol/L
Glucose	1.9 – 23 mmol/L
Lactate	0.3 – 6.5 mmol/L
Urea	2.8 – 25 mmol/L
Creatinine	30 - 560 µmol/L
Haematocrit	0 – 70 %PCV

### ! CAUTION !

1. For in vitro diagnostic use only.
2. Animal Blood Product. Bovine based materials do not carry biohazards for man, such as HepB, HepC and HIV. This product is free from TSE.
3. This product should not be disposed of in general waste. Consult local environmental authorities for proper disposal.

**Although every effort is made to ensure that the material is free from any known infectious agent, the samples should be handled as for clinical specimens.**