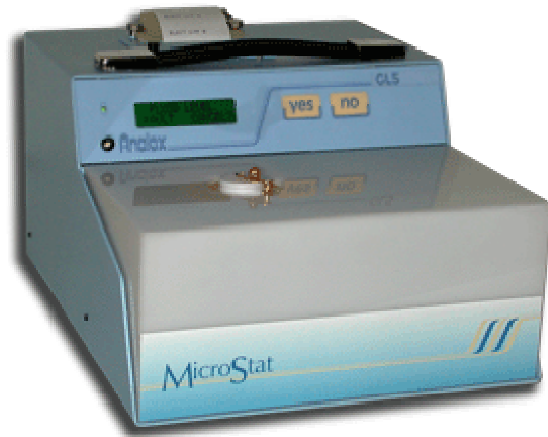


The **GL5 MicroStat** analyser offers the five simplest direct enzymatic-rate chemistries in one compact instrument. For a relatively small additional capital cost over the Analox range of single parameter analysers, the GL5 can measure: **Glucose, Lactate, Cholesterol, Urate and Alcohol.**



Analytical Principle

In oxidase enzyme reactions, the analyser measures the rate of oxygen uptake and under appropriate controlled conditions, this is directly proportional to the concentration of the analyte.

Example - Lactate in whole blood or plasma:



Operation

For many assays, injection of sample is all that is needed to obtain a result and prepare the analyser for the next analysis. Sample injection via an accurate positive displacement pipette triggers the complete analytical cycle and a hard-copy result is printed within 20 seconds. The analyser is first calibrated with a standard of the metabolite in question.

Samples can be whole blood (for key assays such as lactate and glucose), plasma, serum or other biological fluids.

Analyses are menu-driven via the 32-character display which guides the operator through the complete procedure. Subsidiary menus are reached via the YES and NO buttons which enable the user to change analysis type, optimise operational modes, utilise special functions and perform statistical data analysis. The display also provides self-test diagnostics in relation to electrode status and reagent activity.

Changeover between analytes is quickly and simply effected and all fluid pathways inside the analyser can be rapidly sterilised without compromising performance.

Analytical Performance GL5			
	Accuracy (Method Comparisons)	Linearity	Precision
Glucose	y (Analox) = 0.98 (HK) - 2.5mg/dl n = 156, r = 0.998	0 - 540mg/dl	CV = 1% @ 90mg/dl
Lactate	y (Analox) = 0.98 (YSI) + 0.8mg/dl n = 56, r = 0.998	0 - 90mg/dl	CV = 0.5 - 1.0% @ 50mg/dl
Alcohol	y (Analox) = 0.97 (True Val.) + 2.1mg/dl n = 89, r = 0.998	0 - 300mg/dl	CV = 2.5% @ 85mg/dl
Cholesterol	y (Analox) = 1.06 (Man.Enz) - 7.7mg/dl n = 35, r = 0.998	0 - 400mg/dl	CV = 1% @ 200mg/dl
Urate	y (Analox) = 1.02 (AAlI) + 0.06mg/dl n = 53, r = 0.998	0 - 13.5mg/dl	CV = 2% @ 10mg/dl

Instrument Specification:

Method	Enzymatic oxygen-rate
Sensor	Clark-type amperometric oxygen electrode
Reaction Temperature	30°C
Display	32 character backlit LCD
Printer	16 column dot matrix, 1 line/sec.
Statistics	Sequential, giving mean, S.D and C.V.
Interface	Serial data port, optional Windows software available
Power	100-250VAC, 50-60Hz, 12-15VDC, 60VA
Dimensions	23cm(width) x 29cm(depth) x 15cm(height)
Weight	3.8Kg (Portable, 6Kg)

Ordering Information:

GL5 Mains	Analyser, mains version
P-GL5 Portable	Portable analyser, rechargeable battery/mains
GMRD-002A	Glucose oxidase reagent, 360 analyser cycles
GMRD-011	Glucose standard, 8mmol/L, 30ml (other values available)
GMRD-021	Uric acid reagent kit, 70 analyser cycles incl. 0.6mmol/L standard
GMRD-084	Cholesterol reagent kit, 50 tests, incl. 5.2mmol/L standard
GMRD-093/092	Lactate reagent for intact whole blood - 250 and 1000 analyser cycles respectively, including 8.0mmol/L standard
GMRD-100/103/102	Lactate reagent for lysed whole blood - 100, 250 and 1000 analyser cycles respectively, including 8.0mmol/L standard
GMRD-113	Alcohol reagent kit, 70 analyser cycles
GMRD-110(100)	Alcohol standard, 100mg/dl, 4 x 1ml (other values available)
GMRD-050	Record cards for collection capillaries, pack of 40
GMRD-053/056	Blood collection capillaries, pack of 100 and 500 respectively
GMRD-055/056	Closures for collection capillaries, pack of 500 and 1000 respectively
GMRD-074	Lactate quality control, 4 x 0.5ml

Specialised Blood collection systems and accessories are available