

LM5 Lactate Analyser (from ANALOX ltd)



The laboratory measurement of L-lactate has until recent times been difficult and time consuming. Analox Instruments has been involved in the manufacture of lactate analysers for clinical and sports science applications for over 20 years and now offers a dedicated lactate analyser, the Model LM5, for the dairy and food & beverage industries.

The LM5 is both simple to operate and very fast, with results printed out within 20 seconds of sample injection. It employs sophisticated enzymatic oxygen-rate technology, yet operation is effected just by the use of simple YES and NO keys following prompts from the display. The LM5 is available in mains powered or fully portable rechargeable battery versions.

Application:

The LM5 Lactate Analyser as a Milk Quality Monitor:

The determination of lactate in milk and milk products is a rapid indicator of milk quality. It can be used for monitoring process operations and checking raw milk supplies.

Lactate testing is very fast (unlike bacteriological tests), highly specific (only the natural L-lactic acid is measured) and quantitatively accurate. Fresh milk typically has a lactate concentration of only 1-3mg/dl but with age lactate values increase rapidly. Soured milk can give values in excess of 400mg/dl. It is thus a very sensitive quality indicator.

Instrument Specification:

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|--------------------|---|
| Method | Enzymatic oxygen-rate |
| Sensor | Clark-type amperometric oxygen electrode |
| 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) |
| Linearity | 0-100mg/dl |
| Sensitivity | 0.1mg/dl |

Ordering Information:

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|-------------------------|---|
| LM5 | Lactate analyser, mains version |
| P-LM5 | Portable lactate analyser, rechargeable battery mains |
| GMRD-090/093/092 | Lactate reagent - 100, 250, and 1000 analyser cycles respectively, including 8mmol/L standard |