

Milk Fat Analyzer LAMA-B10



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Milk Fat Analyzer LAMA-B10 based on Soxhlet extraction principle, determines fat and SNF (Solids Non Fat) content in milk by (gravimetric) weight method. Integrated with processes such as soaking, extraction, leaching, heating, condensation and solvent recovery by means of alkali solvent and oil chromatographic fat separation. Batch handling sample volume and automated fat extraction method ensures safe and effective sample handling. This fully automated milk fat analyzer delivers fast and safe determination of fat constituents in milk and milk powder.

Features

- ✓ Soxhlet extraction using alkali solvent like diethyl ether and petroleum ether
- ✓ Fat cell breaking mechanism and oil chromatographic separation
- ✓ Acid-base hydrolysis method to quantify weight of extract
- ✓ Microcomputer control system with LCD touch screen display
- ✓ Efficient solvent reflux recovery system by distillation
- ✓ Equipped with six extraction positions
- ✓ Unique air insulation for temperature heating protection and constant temperature
- ✓ Integral aluminum alloy heating gives quick, uniform, stable and safe temperature rise

Core technology

- ✓ Condenser tube integrated with oil chromatographic separation tube
- ✓ Liposuction extraction bottle of glass for sample storage and sample stratification
- ✓ Aluminium cup as receiving cartridge for recovery of fats

Application

Used in testing milk and milk powder on different parameters for quality and testing, research purpose across milk packing and production testing plants, food and confectionary factories.

Specification

Model no	LAMA-B10
Test range	milk fat $\geq 0.3\%$
Sample size	Solid: 1 to 10 g, liquid: 3 to 10 ml
Extraction time	120 min
Precision	Fat content $\leq 5\%$, $\leq 0.1\text{ g} / 100\text{ g}$, Fat content of 5 to 15%, $\leq 0.2\text{ g} / 100\text{ g}$, Fat content $\geq 15\%$, $\leq 0.3\text{ g} / 100\text{ g}$
Reproducibility	$\leq 0.4\%$
Capacity per batch	6 samples
Solvent volume	70 ml
Solvent recovery	$\geq 80\%$
Temperature range	Room temperature to 200°C
Working temperature requirement	Condensate temperature $>4\text{ }^\circ\text{C}$, $<26\text{ }^\circ\text{C}$
Temperature regulator accuracy	$\pm 0.5\text{ }^\circ\text{C}$
Control mode	7 inch ultra-fine color touch screen LCD
Pumping bottle	70 ml glass bottle
Extraction cup	Aluminium cup
Temperature protection system	Intelligent insulation control, with alarm
Heating method	Aluminum alloy heating
Power supply	220 V $\pm 10\%$, 50 to 60 Hz
Power consumption	500 W
Dimension	600 × 400 × 640 mm
Weight	32 kg