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OSMOMAT 3000 freezing point asmanater

23/2012

INFO

OSMOMAT 3000

freezing point osmometer

TOUCH IT) user guidance QM assistance barcode and USB connectivity

www.gonotec.com

Fields of Application of the OSMOMAT® 3000

- The GONOTEC® Single-Sample Freezing Point Osmometer is especially designed for routine measurements in the medical field and is also very suitable for measurements in research and industry.
- The OSMOMAT 3000 determines the total osmolality of aqueous solutions. The instrument requires very small sample volumes and can thus be applied for extreme measuring tasks. Its rapidity allows serial measurements in a very short time.

Simple Handling and Documentation

- The OSMOMAT 3000 Osmometer can be controlled easily and comfortably via a touch screen display.
- Step by step user guidance through all measurement functions.
- QM assistance for the laboratory supervisor.
- 2 or 3 point calibration.
- The results are sent to the optional built-in printer in document-ready format.
- For data transfer to a PC it can be connected via USB or RS232.
- Collection of sample data via an optional barcode reader.
- The robust design of the measurement equipment makes the OSMOMAT 3000 easy to handle and maintain.
- Automatic calibration by using Gonotec calibration standards.

The Measuring Technique

The total osmolality of aqueous solutions is determined by comparative measurements of the freezing points of pure water and of solutions. Whereas water has a freezing point of 0 °C, a solution with saline concentration of 1 Osmol/kg has a freezing point of -1.858 °C.

OSMOMAT 3000 can be used in:

- General Medicine
- Routine and Research
- Forensic Medicine
- Electron Microscopy
- Physiology
- Clinical Laboratories
- Intensive care Laboratories
- Paediatrics
- Gynaecology
- In-vitro Fertilization
- Urology
- Nephrology
- Haemodialysis/Hemofiltration
- Veterinary Medicine
- Botany
- Pharmacy
- Dispensaries
- etc

Option D

Specification

Standard Instrument

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Display	5.7" LCD - touch screen	Printer	Graphical dot matrix-printer of
Initiation of the	By means of the tip of a stainless steel		and sample information on e
cryst. process	needle covered with ice crystals which		measurement
	is controlled automatically	Digits	\geq 16 characters per row
Cooling	By means of two separate peltier	Paper	Normal paper, 43 mm wide
	cooling systems with heat dissipation by	Print modes	
	air	Ink Ribbon	
Lower Cooling			exchangeable
Lower cooling	deviation $< \pm 0.1$ °C	ERROR	Printed in plain text
Sample Volume	$50 \mu\text{l}$ / single sample	LINON	Thinked in plain text
	About one minute	Ontion M	
		Option M	
	1 mOsmol/kg	Sample Volume	15 ul
	mOsmol/kg		≤ ±2.0% [03000] mOsmol/k
	0 up to 3000 mOsmol/kg		
Reproducibility	$\leq \pm 2$ digit [0 400] mOsmol/kg	Accessories	
	$\leq \pm 0.5\%$ [400 1500] mOsmol/kg	Accessories	
	$\leq \pm 1.0\%$ [1500 3000] mOsmol/kg	Digital Input	Barcode reader for reading da
	Less than $\pm 1\%$ in calibrated range		
Output Ports	DTE RS-232, USB		
Ambient Temp.	10 °C to 35 °C		
Power supply	100 - 240V, 50/60 Hz, 80 VA		
Dimensions	220 x 205 x 360 mm (D x W x H)		
Weight	approx 64 kg		

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