



Clinical Systems

FREEZEPOINT™
Freezing Point Osmometer



THE PERFECT LABORATORY COMPANION TO DETERMINE OSMOTIC STRENGTH

A non-invasive in-vitro diagnostic product used to determine the osmolality of aqueous solutions.

ADVANTAGES OF THE FREEZEPOINT™

- Controlled easily via a touch screen display
- Step by step user guidance through all measurement functions
- Two or three point calibration
- Robust design of the instrument makes it easy to handle and maintain
- Automatic calibration using ELITechGroup's calibration standards
- Last result remains available after switching to automatic stand-by mode
- QM assistance for the laboratory supervisor
- For data transfer to a PC it can be connected via USB or RS232

INTENDED USE

FreezePoint is designed for routine measurements in the medical field and is also suitable for measurements in research and industry to determine the total osmolality of aqueous solutions.

The instrument only requires 15 µl sample volumes offering rapid measurement cycles that are completed in a very short time.

MEASUREMENT 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

SPECIFICATIONS

Model	6000
Display	5.7" LCD - Touch Screen
Weight	6.5 kg (14.3 lbs)
Dimensions (W x H x D)	205 mm x 360 mm x 220 mm (8.1" x 14.2" x 8.7")
Cooling Unit	Two separate peltier cooling systems with heat dissipation by air
Lower Cooling	Electronic temperature regulation, deviation < ±0.1 °C
Sample Volume	15 µL / single sample
Test Time	~ 60 Seconds
Resolution	1 mOsmol/kg H ₂ O
Units	mOsmol/kg H ₂ O
Range	0 up to 3000 mOsmol/kg H ₂ O
Reproducibility	≤ ±2 digit [0.. 400] mOsmol/kg H ₂ O ≤ ±0.5% [400.. 1500] mOsmol/kg H ₂ O ≤ ±1.0% [1500.. 3000] mOsmol/kg H ₂ O
Linearity	Less than ±1% in calibrated range
Ambient Temperature	10 °C to 35 °C
Power Supply	100 - 240V, 50/60 Hz, 80 VA

APPLICATIONS

- ▶ General medicine
- ▶ Sports laboratories
- ▶ Forensic medicine
- ▶ Electron microscopy
- ▶ Physiology
- ▶ Clinical laboratories
- ▶ Botany
- ▶ Paediatrics
- ▶ Gynecology
- ▶ Military hospitals
- ▶ In-vitro Fertilization
- ▶ Urology
- ▶ Nephrology
- ▶ Hemodialysis
- ▶ Veterinary medicine
- ▶ Intensive care laboratories
- ▶ Pharmacy
- ▶ Dispensaries
- ▶ Contact Lens Manufacturing
- ▶ Food/Beverage Manufacturing

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YEARS

ELITechGroup is a privately held group of worldwide manufacturers and distributors of in vitro diagnostic equipment and reagents for clinical systems, microbiology, molecular diagnostics, hematology, and sweat test systems. Our mission is to improve patient care by empowering laboratories to do more in less time, with accuracy, to enable rapid and accurate course of treatment for patients.



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Headquarters

Australia T: +61 1800 815 098
Belgium & Luxembourg T: +32 9 282 05 31
Brazil T: +55 27 3025 1415
France T: +33 4 83 36 10 82
Italy T: +39 02 48 40 35 42
New Zealand T: +64 800 555 611

+33 1 41 45 07 10

T: +61 1800 815 098
T: +32 9 282 05 31
T: +55 27 3025 1415
T: +33 4 83 36 10 82
T: +39 02 48 40 35 42
T: +64 800 555 611

Serbia
Switzerland
The Netherlands
UK
United States

T: +381 11 2467119
T: +41 26 663 86 60
T: +31 313 430 500
T: +44 1442 869320
T: +1 435 752 6011



ELITechGroup

EMPOWERING IVD

elitechgroup.com

info@elitechgroup.com