

Specifications for Osmometer

(Ref. No: NIN/ST/12/Osmometer/2017-18))

The instrument should measure the urine osmolarity.

Display: 5-8" touch screen

Initiation of the cryst.process: By means of the tip of a stainless steel needle covered with ice crystals which is controlled automatically

Cooling : By means of two separate peltier cooling systems with heat dissipation by air

Lower cooling: Electronic temperature regulation deviation $< \pm 0.1^{\circ}\text{C}$

Sample volume: 50-150 μl / single sample

Test time : About 1 to 1.15 min

Resolution : 1 mOsmol/kg H₂O

Units : mOsmo/kg H₂O

Range : 0 up to 3000 mOsmol/kg H₂O

Linearity : Less than $\pm 1\%$ in calibrated range

Output ports : DTE RS-232, USB

Ambient temp : 10 $^{\circ}\text{C}$ to 36 $^{\circ}\text{C}$

Power supply : 100-240 V

Calibration : 3 point calibration (Automatic calibration)

Facility to connect to PC via USB

Language : English

Printer : Graphical dot matrix-printer date, time and sample information on each measurement.