## Freezing Point Osmometer FPOSM-V3.0

We produce the freezing point osmometer FPOSM-V3.0,with independent research and development is in accordance with Raoul freezing point theory, based on the solution freezing point declined value proportional to the solution molar concentration, using high sensitivity of temperature-sensing element, to measure the freezing point of different solutions, so as to derive the osmotic pressure molar concentration. This theory has been widely used for the test and research of osmotic pressure molar concentration in the fields such as pharmaceuticals,pharmaceutical analysis, biological and food therapy



## Features

- It has the functions of electronic signature and user classification management, to satisfy CFR PART21 store data query according to time which can store 3 years of testing data
- Instrument adopts the screw linear guide motor design, so that the operation just on a touch screen can complete the whole test process
- It can simultaneously display the osmotic pressure molar concentration value, the freezing point value and the molar concentration ratio
- Built-in "Chinese pharmacopoeia" hundreds of injectable drug name can facilitate the preset information of test sample
- It can carry on single-point or multi-point (31-point) linear calibration, to ensure that the instrument has the detection accuracy of each range interval in stability
- Temperature probe adopts double refrigeration system, with a short pre-cooling time, fast detection speed,to facilitate continuous detection
- The cooling system adopts the athermal transfer fluid design, to exempt from frequent maintenance

## Parameters

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| Measurement Range | 0~3000 mOsmol |
| Sample Amount | 100μl |
| Testing Duration | ≤3min |
| Pre-cooling Time | ≤3min |
| Measurement Error | ≤1% |
| Repeatability | ≤1% |
| Linearity | ≤1% |
| Environment Temperature | 0~30℃ Recommended for 15~25℃ |
| Environment Temperature | ≤60% |
| Power Supply | 220V~50Hz 150VA |
| Dimensions | 340mm*300mm*400mm |
| Weight | 17kg |