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### Brand positioning:

Analytical instrument manufacturer, laboratory solution provider!

### Company introduction:

Shanghai Yuke Industry Co., Ltd. was established in 1999. It is a leading manufacturer of analytical instruments and laboratory equipment in China, and is known as a high-quality instrument manufacturer and perfect service provider. Committed to the research and innovation of scientific instruments and analytical methods in the food and pharmaceutical industries, in order to promote green food and health drugs, develop and produce analytical measuring instruments, and provide technical workers with application methods and comprehensive solutions.

Yuke professional R&D laboratory instruments include: **Thermal Analyzer (DSC/TGA/STA), Microwave Digester, Dissolution system, Melting point meter, Polarimeter, Refractometer, Density meter, Turbidity meter, Dropping point & Softening point tester, Micro heating table, Potentiometric Titration, Moisture meter, Osmometer, Viscosity meter, Hardness tester, Flash point tester ..** They are widely used in pharmaceutical and food quality control, education and research, environmental science, chemical engineering and other fields.

Yuke has established strict working standards and technical standards in R&D, parts procurement, standardized manufacturing, and production inspection. Yuke has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality. Yuke headquarters was established in Shanghai, China, with 15 sales branches in China, sales agents in more than 10 overseas countries, and 2 production plants. At the same time, we have a top R&D team returned from Europe and America, cooperate with our superb manufacturing team, professional sales team and dedicated service team, working together to provide customers with high-tech, high-quality products and efficient, convenient, Comprehensive pre-sales and after-sales professional services.

At present, Yuke's products have been exported to more than 50 countries including the United States, Germany, France, Malaysia, Vietnam, India, Italy, etc. We are committed to participating in Arablab, PICCTON, Analytica Russia, Lab Africa, Analytica Germany, Analytica Latin America and other exhibitions. Open up different markets, and enjoy a good reputation with reliable quality, reasonable prices and good service to win a large market share.

Yuke is committed to providing customers with a better user experience and hopes to become a world-class scientific instrument manufacturer and laboratory solution provider!



## Freezing Point Osmometer



### Brief Introduction

YK-ST3000 Osmometer is an osmotic pressure molar concentration tester designed on the principle of freezing point depression. It consists of a refrigeration system, a thermal probe and an oscillator (or metal probe) for measuring current or potential difference. When measuring, dip the measuring probe into the center of the test solution and drop it into the cooling tank of the instrument. Start the refrigeration system. When the temperature of the test solution drops below the freezing point, the instrument uses an oscillator (or metal probe) to induce the solution to freeze, and automatically records the temperature of the freezing point drop.

### Fields of use

Clinical laboratories, general medicine, urology, nephrology, pediatrics, gynecology, hemofiltration, hemodialysis, pharmacy, intensive care unit (ICU), IVF, veterinary medicine, forensic science, botany, physiology, scientific research and industrial fields, biotechnology, electron microscopy applications, pharmaceutical industry, etc.

### The main features

1. Using high-precision sensors to ensure test accuracy;
2. Double refrigeration system to ensure efficient and fast testing;
3. Two-point and multi-point linear calibration can be performed to ensure the linearity of the instrument;
4. Simultaneously measure osmotic pressure molar concentration, freezing point and molar concentration ratio;
5. Multi-level authority management, authority can be freely configured;
6. Comply with 21CFR Part11 audit trail, 2020 version, "United States Pharmacopoeia" and other standards;
7. Comply with GMP, cFDA certification.



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### Technical parameters

|                                   |   |
|-----------------------------------|---|
| Model                             | YK-ST3000   |
| Measuring range                   | 0-3000mosmol/kg   |
| Sample volume                     | 50 $\mu$ l (50 $\mu$ l-100 $\mu$ l)                           |
| Test time                         | <100S   |
| Pre-cooling time                  | $\leq$ 3 minutes  |
| Accuracy                          | $\pm$ 2mmol/kg ( $\leq$ 200mosmol/kg) $\pm$ 1%(>200mosmol/kg) |
| Relative standard deviation (RSD) | $\leq$ $\pm$ 1% (300 mosmol/kg)                               |
| Resolution                        | 1mosmol/kg  |
| Ambient temperature               | 10-30 $^{\circ}$ C  |
| Power supply                      | AC 220V 50HZ 150W   |
| Dimensions                        | 220mm*270mm*340mm   |
| Weight                            | 15KG  |