

Ensure the highest precision for your osmometer



Achieve the most accurate results with the only comprehensive set of control solutions and laboratory supplies designed specifically for osmometers.

Advanced Instruments ControlLine™ Products



Developed with the focus only customer feedback can provide, ControlLine solutions continue our commitment to quality and excellence. The true performance of your osmometer can only be realized with control materials and laboratory supplies specifically designed for your instrument.

Avoid expensive workflow disruptions and ensure the reliability of patients' results.



**ADVANCED
INSTRUMENTS, INC.**



ControLine Products

Our control materials work in any freezing-point osmometer to optimize performance.



Feel the Confidence of Total Control

Only Advanced Instruments, the world's largest osmometer producer, brings you control supplies designed specifically for osmolality testing. ControLine products are manufactured to stringent NIST and ISO 9000 quality systems standards. Our control materials and test kits offer excellent dimensional stability and the tightest tolerances — producing the highest instrument accuracy ratings. Why use generic control materials that test a variety of laboratory instruments? Feel the confidence of total accuracy with products integrally formulated for osmometers.

Protinol®

Protein-Based Controls

We designed Protinol specifically for clinical laboratories testing blood samples. The protein-based controls are formulated to produce the most consistent, reliable results in the human serum range. Protinol is specifically formulated at three levels to allow users to comply with CLIA quality control requirements. Run controls daily to monitor and document your osmometer's performance. The product is premixed and ready to use in three, 3 mL bottles of each value per kit.

Expected Results

	Expected Values	Expected Ranges
Low	240 mOsm/kg H ₂ O	233-247 mOsm/kg H ₂ O
Normal	280 mOsm/kg H ₂ O	273-287 mOsm/kg H ₂ O
High	320 mOsm/kg H ₂ O	313-327 mOsm/kg H ₂ O



Renol™

Urine Controls

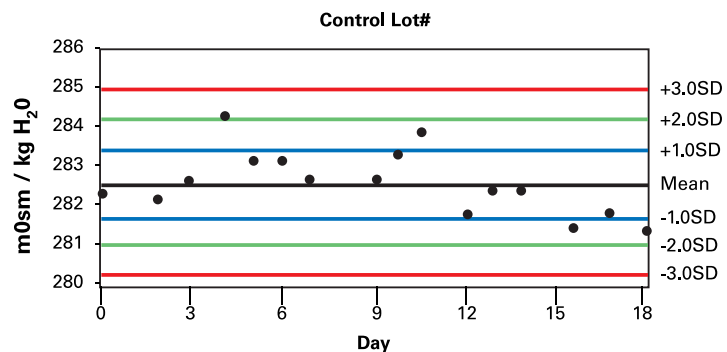
Renol is the world's only osmometer-specific control solution for laboratories testing urine samples. The aqueous-based control material is manufactured to extremely tight tolerances for better repeatability and the most precise control over patient results. Renol comes premixed and ready to use in four, 3 mL bottles of each value per kit. Formulation values include 300 and 800 mOsm/kg H₂O. These concentrations are close to medical decision levels where performance is critical for the use and interpretation of the test.



Perform and document control procedures using at least two levels of control materials daily, in order to comply with CLIA requirements.

Levey-Jennings Control Chart

Statistics	
n	16
Mean	282.6
Std. Dev.	0.7
%CV	0.2
Min	281.2
Max	284.2



- Track control results
- Identify shifts, trends, and random errors
- Apply control rules
- Implement corrective actions



Generate QC data and record required information on method performance and routine operation.



Clinitrol™

290 Reference Solution

A true instrument reference designed specifically for osmometers, Clinitrol provides results that approximate the osmolality of normal serum. Use Clinitrol:

- When testing a single unknown sample
- When testing more than one unknown sample, run Clinitrol samples at the beginning and end of each batch
- To monitor operator technique, particularly important when several shifts or operators are involved
- After performing a calibration

Clinitrol reference solution is premixed and ready to use.



Osmolality

Linearity Set

Designed to help clinical laboratories easily monitor osmometer performance specifications and fulfill CLIA requirements for verifying the reportable range of a laboratory method. The package contains two sets of 5 mL ampules with assigned values of 100, 500, 900, 1500, and 2000 mOsm/kg H₂O.

- Assess and document method performance standards
- Test Linearity Set after performing calibration
- Verify the reportable range of patient test results



For more information on ControlLine and other Advanced Instruments products, visit

www.aicompanies.com



Strengthen your laboratory's Quality Control program and increase confidence by using products made specifically for your osmometer.





How To Order

Product	Part Number
Protinol	3MA028
Renol	3LA085
Clinitrol 290	3MA029 (2 mL ampules)
	3LA029 (5 mL ampules)
Osmolality Linearity Set	3LA028

To order in North America, contact us at **800-225-4034** or our authorized distributors, Cardinal Health/Allegiance, Fisher, or VWR International.

For International orders, contact us at **+1-781-320-9000** to find your authorized dealer.

Introducing 24-Hour Support, 7 Days a Week: Technical support is available around the clock for all Advanced Instruments and Fiske Associates products. Contact us toll free at **1-800-225-4034** or at **781-320-9000**. FAX us at **781-320-0811** or by e-mail at **techsupport@aicompanies.com**.

For more information about osmolality, visit **www.osmolality.com**.



Sample Test Kits

To assure the optimal performance of your osmometer, Advanced Instruments supplies high quality test kits consisting of sample tubes and probe cleaners. These products are scrutinized by our Inspection Team for reliability, consistency, and quality.

Advanced Instruments also supplies a complete line of single sample and multi-sample osmometers:

Advanced Instruments	Fiske Associates
3300 (micro-sample)	210 (new micro-sample)
3900 (multi-sample)	2400 (multi-sample)
3D3 (single-sample)	Mark3 (single-sample)

About Advanced Instruments

Based in Norwood, Massachusetts, USA, Advanced Instruments' products are supported by worldwide operations and a comprehensive network of independent dealers. In addition to its branded products, the company also produces Fiske® Associates brand diagnostic instruments and operates Spiral Biotech, Inc., a wholly owned subsidiary. For almost 50 years, laboratory professionals have looked to Advanced Instruments for exceptional customer support and innovative tools for the diagnostic laboratory.

Available from:



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