



## 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 <sub>2</sub> O	233-247 mOsm/kg H <sub>2</sub> O
Normal	280 mOsm/kg H <sub>2</sub> O	273-287 mOsm/kg H <sub>2</sub> O
High	320 mOsm/kg H <sub>2</sub> O	313-327 mOsm/kg H <sub>2</sub> O



## Renol™

### Urine Controls

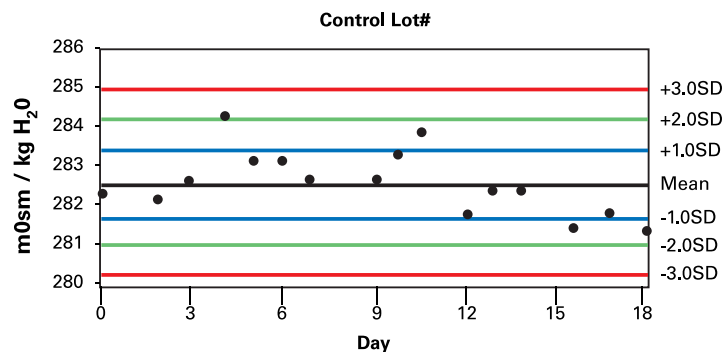
Renol is the world's only osmometer-specific control solution for laboratories testing urine samples. The aqueous-based control material is manufactured to extremely tight tolerances for better repeatability and the most precise control over patient results. Renol comes premixed and ready to use in four, 3 mL bottles of each value per kit. Formulation values include 300 and 800 mOsm/kg H<sub>2</sub>O. 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

