

ORP and Sample Preparation Solutions

- **Safety Data Sheets**
 - Safety data sheets for all Hanna solutions are available at hannainst.com or upon request.
- **Expiration date**
 - The production batch number and expiration date are reported on all Hanna calibration solutions.
- **Air-tight bottles**
 - Air-tight bottle with tamper-proof seal of freshness to ensure quality.

ORP Test and Pretreatment Solutions

ORP standard solutions allows users to test the precision of ORP electrodes. For example, by immersing the electrode in HI7021 solution, the reading should be at 240 mV (@25°C/77°F).

If the reading is outside the indicated interval, clean and condition your ORP electrode in Hanna pretreatment solution.

Use HI7092 for oxidizing or HI7091 for reducing pretreatment.

Soil Sample Preparation Solution

HI7051 Soil Sample Preparation Solution is an electrolyte solution used in the measurement of soil pH. The pH of soil is most commonly measured as either a water slurry or electrolyte slurry, where a set ratio of soil:solvent (solvent is water or electrolyte solution) is chosen; common ratios used for soil pH are 1:1, 1:2, or 1:5, where more solvent than soil is used when soils-to-be-analyzed contain high amounts of organic matter or clay. Use of an electrolyte solution is usually preferred as it is less affected by soil electrolyte concentration and provides a more consistent measurement for soils whose salt content may fluctuate as a result of seasonal conditions or crop residues.

Using the HI7051 solution prior to taking a measurement provides for a more accurate pH reading of soil samples.



ORP Test and Pretreatment Solution Bottles

Code	Description	Size	Certificate of Analysis
HI7021L	240 mV ORP solution for platinum and gold electrodes	500 mL	on request
HI7021M	240 mV ORP solution for platinum and gold electrodes	230 mL	on request
HI7022L	470 mV ORP solution for platinum and gold electrodes	500 mL	on request
HI70224L	470 mV ORP solution for platinum and gold electrodes	500 mL (Pool Line)	on request
HI7022M	470 mV ORP solution for platinum and gold electrodes	230 mL	on request
HI7091L	reducing pretreatment solution (2 components)	500 mL + 14g (set)	
HI7092L	oxidizing pretreatment solution for ORP electrodes	500 mL	
HI7092M	oxidizing pretreatment solution for ORP electrodes	230 mL	

ORP Test and Pretreatment Solution Sachets

Code	Description	Size	Package	Certificate of Analysis
HI70022P	470 mV ORP solution for platinum and gold electrodes	20 mL	25 pcs.	•
HI700224P	470 mV ORP solution for platinum and gold electrodes	20 mL (Pool Line)	25 pcs.	•

Sample Preparation Solution Bottles

Code	Description	Size
HI7051M	soil sample preparation solution	230 mL
HI7051L	soil sample preparation solution	500 mL
HI70960	preparation solution for solid or semi-solid samples	30 mL

