

## ORP Solution Bottles

Code	Description	Size	Certificate of Analysis
HI 7020L	ORP test solution @200 to 275 mV (@25°C)	500 mL	on request
HI 7020M	ORP test solution @200 to 275 mV (@25°C)	230 mL	on request
HI 7021L	ORP test solution @240 mV (@25°C)	500 mL	on request
HI 7021M	ORP test solution @240 mV (@25°C)	230 mL	on request
HI 7022L	ORP test solution @470 mV (@25°C)	500 mL	on request
HI 7022M	ORP test solution @470 mV (@25°C)	230 mL	on request
HI 7091L	reducing pretreatment solution	500 mL	
HI 7091M	reducing pretreatment solution	230 mL	
HI 7092L	oxidizing pretreatment solution	500 mL	
HI 7092M	oxidizing pretreatment solution	230 mL	

## ISE Standards

Code	Description	Size
HI 4001-01	0.1 M ammonia std.	500 mL
HI 4001-02	100 mg/L (ppm) ammonia std. (as N)	500 mL
HI 4001-03	1000 mg/L (ppm) ammonia std. (as N)	500 mL
HI 4002-01	0.1 M bromide std.	500 mL
HI 4003-01	0.1 M cadmium std.	500 mL
HI 4004-01	0.1 M calcium std.	500 mL
HI 4005-01	0.1 M carbon dioxide std.	500 mL
HI 4005-03	1000 mg/L (ppm) carbon dioxide std. (as CaCO <sub>3</sub> )	500 mL
HI 4007-01	0.1 M chloride std.	500 mL
HI 4007-02	100 mg/L (ppm) chloride std.	500 mL
HI 4007-03	1000 mg/L (ppm) chloride std.	500 mL
HI 4008-01	0.1 M cupric std.	500 mL
HI 4010-01	0.1 M fluoride std.	500 mL
HI 4010-02	100 mg/L (ppm) fluoride std.	500 mL
HI 4010-03	1000 mg/L (ppm) fluoride std.	500 mL
HI 4010-10	10 mg/L (ppm) fluoride std. premixed with TISAB II	500 mL
HI 4010-11	1 mg/L (ppm) fluoride std. premixed with TISAB II	500 mL
HI 4010-12	2 mg/L (ppm) fluoride std. premixed with TISAB II	500 mL
HI 4010-30	Kit containing 4 bottles each of : HI 4010-10, HI 4010-11 and HI 4010-00	500 mL (3 x 4)
HI 4011-01	0.1 M iodide std.	500 mL
HI 4012-01	0.1 M lead std.	500 mL
HI 4012-21	0.1 M sulfate std.	500 mL
HI 4013-01	0.1 M nitrate std.	500 mL
HI 4013-02	100 mg/L (ppm) nitrate std. (as N)	500 mL
HI 4013-03	1000 mg/L (ppm) nitrate std. (as N)	500 mL
HI 4014-01	0.1 M potassium std.	500 mL
HI 4015-01	0.1 M silver std.	500 mL
HI 4016-01	0.1 M sodium standard	500 mL
HI 4016-02	100 ppm sodium standard	500 mL
HI 4016-03	1000 ppm sodium standard	500 mL
HI 4016-10	10 ppm sodium standard	500 mL

## Specific "Solutions" for ISE Sensors

Code	Description	Size
HI 4000-47	pH 4 and pH 7 buffers with chloride background. Used to check glass internal of gas sensors.	10 packages ea. and 2 beakers
HI 4001-45	conditioning and storage solution for HI 4101 ammonia ISE	500 mL
HI 4004-45	conditioning and storage solution for HI 4004 and HI 4104 calcium ISE's	500 mL
HI 4005-45	conditioning and storage solution for HI 4105 carbon dioxide ISE	500 mL
HI 4016-45	storage solution for sodium ISE	500 mL
HI 4016-46	conditioning solution for sodium ISE	500 mL

## Gas Fill Sensors

Code	Description	Size
HI 4001-40	ammonia filling solution	30 mL bottles (4)
HI 4005-40	carbon dioxide filling solution	30 mL bottles (4)

# ORP Solutions & ISE Solutions

## ORP Solutions

ORP standard solutions allows users to test the precision of ORP electrodes. For example, by immersing the electrode in HI 7020 solution, readings should fall within the 200 to 275 mV range (@20°C/68°F).

If the reading is outside the indicated value, clean and condition your ORP electrode in Hanna pretreatment solution. Use HI 7092 for oxidizing or HI 7091 for reducing pretreatment.

## ISE Standards

Our wide selection of Hanna ISE Standards are made and bottled in our own state of the art solutions facility. ISE Standards are required for direct and incremental measurement techniques and are supplied with certificate of analysis.



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