



## Purified Water Specification Testing Results (California Facility)

For the month of: **January 2014(14001-14031)**

Listed below are the testing results for the purified water used in the manufacture of products at Hardy Diagnostics.

Test	Testing Frequency	Units	In-House Specification (method detection limit)	Testing Data
Minimum Resistivity* <sup>1,3,4,5</sup>	Continuous Monitoring	Megohm* cm	> 18.0	18.24
pH*	Each use	N/A	5.5 – 7.5	7.29
Total Organic Carbon <sup>1,3,5</sup>	Monthly	ug/L	<500	447
Heavy Metals* (Single) <sup>1,3,4</sup> (Cd, Cr, Cu, Ni, Pb and Zn)	Annually	mg/L	< 0.05	Cd – ND Cr – ND Cu – ND Ni – ND Pb – ND Zn – ND
Heavy Metals* (Total) <sup>3,4</sup>	Annually	mg/L	< 0.1	ND
Ammonia/Organic Nitrogen <sup>3</sup>	Monthly	mg/L	< 0.1	0.07
Total Chlorine Residual <sup>3,4</sup>	Monthly	mg/L	<0.1	ND
Maximum Bacterial Content <sup>1,3,4,5</sup>	Weekly	colony forming units (CFU) per milliliter	<10	<1
Water Quality <sup>3,4</sup> ratio	Annually	ratio	0.8 – 3.0	1.12
Use Test (Student <i>t</i> ) <sup>3</sup>	Quarterly	N/A	≤ 2.78	2.0
Inhibitory Residue <sup>4</sup>	Annually	N/A	< 15%	- 4%
Maximum Silicate, SiO <sub>2</sub> <sup>3,4</sup>	Annually	mg/L	≤ 0.05	ND

ND = Not Detected at or above the method detection limit.

\*Testing data is given as a monthly average.

### References:

1. *Preparation and Testing of Reagent Water in the Clinical Laboratory*, C3-A4. Clinical Laboratory Standards (CLSI), Villanova, PA, 2006.
2. *Quality Assurance for Commercially Prepared Microbiological Culture Media*, M22-A3. Clinical Laboratory Standards Institute (CLSI – formerly NCCLS), Villanova, PA, 2004.
3. *Standard Methods for the Examination of Water and Wastewater*, 21st ed., editors Andrew D. Eaton, Lenore S. Clesceri, et al. American Public Health Association, Washington, D.C. 2005.
4. *Manual for the Certification of Laboratories Analyzing Drinking Water*, Criteria and Procedures Quality Assurance 5th ed., Environmental Protection Agency (EPA).
5. USP. *USP 35-NF 30, Water for Pharmaceutical Purposes <1231>*. Rockville, MD: US Pharmacopeial Convention; 2012:886-907.

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