

## **Purified Water Specification Testing Results (California Facility)**

## For the month of: February 2014 (14032-14059)

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	6.91
Total Organic Carbon <sup>1,3,5</sup>	Monthly	ug/L	<500	ND
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/OrganicNitrogen <sup>3</sup>	Monthly	mg/L	< 0.1	ND
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 t) <sup>3</sup>	Quarterly	N/A	<u>&lt;</u> 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	<u>&lt;</u> 0.05	ND

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

## 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.

Wendy Hadley

Manager of Quality Control

Ivendy Hadley

Hardy Diagnostics 1430 W. McCoy Lane Santa Maria, CA 93455

<sup>\*</sup>Testing data is given as a monthly average.