

California Facility Purified Water Specification Testing Result For the month of: February 2016 (16032-16060)

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*1,3,4,5	Continuous Monitoring	Megohm* cm	> 18.0	18.05
pH**	Daily	N/A	5.5 – 7.5	7.23
Total Organic Carbon ^{1,3,5}	Monthly	ug/L	<500	180
Heavy Metals (Single) ^{1,3,4} (Cd, Cr, Cu, Ni, Pb and Zn)	Annually	mg/L	< 0.05	Cd – ND Cr – ND Cu – ND Pb – ND Ni –ND Zn – 0.00077
Heavy Metals (Total)3,4	Annually	mg/L	< 0.1	0.00085
Ammonia/OrganicNitrogen ³	Monthly	mg/L	< 0.1	ND
Total Chlorine Residual ^{3,4}	Monthly	mg/L	<0.1	ND
Maximum Bacterial Content***1,3,4,5	Weekly	colony forming units (CFU) per milliliter	<10	<1.0
Water Quality ^{3,4} ratio	Annually	ratio	0.8 – 3.0	1.11
Use Test (Student t) ³	Quarterly	N/A	≤ 2.78	≤ 2.78
Inhibitory Residue ⁴	Annually	N/A	< 15%	3.2%
Maximum Silicate, SiO ₂ 3,4	Annually	mg/L	<u>≤</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.
- 2. Quality Assurance for Commercially Prepared Microbiological Culture Media, M22-A3. Clinical Laboratory Standards Institute (CLSI formerly NCCLS), Villanova, PA.
- 3. American Public Health Association, Standard Methods for the Examination of Water and Wastewater, Washington, D.C.
- 4. Manual for the Certification of Laboratories Analyzing Drinking Water, Criteria and Procedures Quality Assurance, Environmental Protection Agency (EPA).
- 5. USP. USP-NF, Water for Pharmaceutical Purposes <1231>. Rockville, MD: US Pharmacopeial Convention.

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^{*}Testing data is given as a monthly average at the water source.

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