RICCA CHEMICAL COMPANY®

Certificate of Analysis

Water, HPLC Grade
ACS Reagent Grade, Suitable for Liquid Chromatography

Lot Number: 2204J00   **Product Number:** 9153

Date Packaged: APR 28, 2022
Expiration Date: OCT 2023

This product is manufactured by a continuous process that has been validated to produce high purity Water meeting, as a minimum, the specifications below. The analysis results are from the most recent scheduled monitoring.

Contains

H_2O CAS No. 7732-18-5   MW 18.02

Test	Specification	Result
Chloride (Cl)	max 0.4 ppm	0.00017 ppm
Conductivity at 25°C	max 0.056	0.055 µS/cm
Heavy Metals (as Pb)	max 0.01 ppm	< 0.01 ppm
LC Suitability (Absorbance)	To Pass Test	Passed
LC Suitability (Gradient Elution Test)	To Pass Test	Passed
Nitrate (NO_3)	max 0.4 ppm	< 0.00002 ppm
Organic Carbon (TOC)	max 50 ppb	27 ppb
Oxidizable Substances (Permanganate Retention)	To Pass Test	Passed
Phosphate (PO_4)	max 1.0 ppm	< 0.00002 ppm
Silicate (as SiO_2)	max 0.01 ppm	< 0.0005 ppm
Sulfate (SO_4)	max 1.0 ppm	< 0.00005 ppm

Specification	Reference
Water, Reagent, Suitable for Ultraviolet Spectrophotometry and Liquid Chromatography	ACS (N/A)

This water is specially purified by conventional water softening, prefiltration, activated carbon organic adsorption, reverse osmosis, mixed bed triple deionization, ultraviolet light irradiation, and 0.2 micron membrane filtration. Consult RICCA CHEMICAL COMPANY Technical Reference Document TRD02 (for lot numbers starting with 1) or TRD03 (for lot numbers starting with 2) for details of the water purification process.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
9153-1	4 L amber glass	18 months
9153-32	1 L amber glass	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Myrlande Gilles (04/28/2022)

Quality Control

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."