Fisher Scientific L.L.C. US
755 US Highway
Route 202, Bridgewater,
NJ 08807, United States of America

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global
Certificate Number. CERT-0120633

Catalogue Number	W9
Lot Number	24029139
Description	Water (Ultra Trace Elemental Analysis Grade)
CAS Number	7732-18-5
Quality Test/Release Date	12/May/2026
Expiration Date	28/Feb/2029
Country of Origin	United States
Declaration of Origin	Inorganic
BSE/TSE	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	N/A
ALUMINUM	ppt	<= 20	<5
ANTIMONY (Sb)	ppt	<= 10	<1
ARSENIC (As)	ppt	<= 10	<10
BARIUM (Ba)	ppt	<= 10	<1
BERYLLIUM (Be)	ppt	<= 10	<1
BISMUTH (Bi)	ppt	<= 10	<1
BORON (B)	ppb	<= 20	<20
CADMIUM (Cd)	ppt	<= 10	<1
CALCIUM (Ca)	ppt	<= 10	<10
CERIUM (Ce)	ppt	<= 10	<1
CESIUM (Cs)	ppt	<= 10	<1
CHROMIUM (Cr)	ppt	<= 10	<5
COBALT (Co)	ppt	<= 10	<1
COLOR	APHA	<= 10	<10
COPPER (Cu)	ppt	<= 10	<10
DYSPROSIUM (Dy)	ppt	<= 1	<1
ERBIUM (Er)	ppt	<= 1	<1
EUROPIUM (Eu)	ppt	<= 1	<1
FREE CHLORIDE			<1
GADOLINIUM (Gd)	ppt	<= 1	<1
GALLIUM (Ga)	ppt	<= 10	<1
GERMANIUM (Ge)	ppt	<= 10	<10
GOLD (Au)	ppt	<= 10	<10
HAFNIUM (Hf)	ppt	<= 1	<1
HOLMIUM (Ho)	ppt	<= 1	<1
INDIUM (In)	ppt	<= 1	<1
IRON (Fe)	ppt	<= 10	<10
LANTHANUM (La)	ppt	<= 1	<1
LEAD (Pb)	ppt	<= 10	<1

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.

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LITHIUM (Li)	ppt	<= 10	<1
LUTETIUM (Lu)	ppt	<= 1	<1
MAGNESIUM (Mg)	ppt	<= 10	<10
MANGANESE (Mn)	ppt	<= 10	<1
MERCURY (Hg)	ppt	<= 20	<20
MOLYBDENUM (Mo)	ppt	<= 10	<10
NEODYMIUM (Nd)	ppt	<= 1	<1
NICKEL (Ni)	ppt	<= 10	<5
NIOBIUM (Nb)	ppt	<= 10	<1
PALLADIUM (Pd)	ppt	<= 10	<1
PLATINUM (Pt)	ppt	<= 10	<5
POTASSIUM (K)	ppt	<= 10	<10.00
PRASEODYMIUM (Pr)	ppt	<= 10	<1
RHENIUM (Re)	ppt	<= 10	<1
RHODIUM (Rh)	ppt	<= 10	<10
RUBIDIUM (Rb)	ppt	<= 10	<1
RUTHENIUM (Ru)	ppt	<= 10	<1
SAMARIUM (Sm)	ppt	<= 10	<1
SCANDIUM (Sc)	ppt	<= 10	<1
SELENIUM (Se)	ppt	<= 50	<50
SILVER (Ag)	ppt	<= 10	<5
SODIUM (Na)	ppt	<= 10	<10
STRONTIUM (Sr)	ppt	<= 10	<10
TANTALUM (Ta)	ppt	<= 10	<1
TELLURIUM (Te)	ppt	<= 1	<1
TERBIUM (Tb)	ppt	<= 10	<1
THALLIUM (Tl)	ppt	<= 10	<1
THORIUM (Th)	ppt	<= 1	<1
THULIUM (Tm)	ppt	<= 10	<1
TIN (Sn)	ppt	<= 10	<5
TITANIUM (Ti)	ppt	<= 10	<5
TOTAL PHOSPHOROUS (P)	ppb	<= 1	<1
TOTAL SULFUR	ppb	<= 1	<1
TUNGSTEN (W)	ppt	<= 10	<1
URANIUM (U)	ppt	<= 1	<1
VANADIUM (V)	ppt	<= 10	<10
YTTERBIUM (Yb)	ppt	<= 10	<1
YTTRIUM (Y)	ppt	<= 1	<1
ZINC (Zn)	ppt	<= 10	<10
ZIRCONIUM (Zr)	ppt	<= 10	<1

Ash Frey
Supervisor, Quality Control

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated

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with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

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