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 | 24032727 |
| Description | Water (Ultra Trace Elemental Analysis Grade) |
| CAS Number | 7732-18-5 |
| Quality Test/Release Date | 03/Aug/2026 |
| Expiration Date | 30/Jun/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 | <20 |
| ANTIMONY (Sb) | ppt | <= 10 | <10 |
| 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 | <10 |
| CALCIUM (Ca) | ppt | <= 10 | <10 |
| CERIUM (Ce) | ppt | <= 10 | <1 |
| CESIUM (Cs) | ppt | <= 10 | <1 |
| CHROMIUM (Cr) | ppt | <= 10 | <10 |
| COBALT (Co) | ppt | <= 10 | <10 |
| 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 | <10 |
| 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 | <10 |

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



Liam Higgins
Senior Manager, Quality

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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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