

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by INTERTEK SAI Global
Certificate Number. QMS42099

Catalogue Number	H/1190
Lot Number	2541784
Description	Hydrochloric acid S.G. 1.1 (20%) PrimaR Trace metal analysis
Quality Test/Release Date	17/Jun/2025
Expiry Phrase	Use within 3 years of packing date
Country of Origin	France

Result Name	Units	Specifications	Test Value
Aluminium (Al)	ppm	<= 0.05	<0.02
Arsenic (As)	ppm	<= 0.02	<0.01
Barium (Ba)	ppm	<= 0.05	<0.005
Cadmium (Cd)	ppm	<= 0.005	<0.005
Calcium (Ca)	ppm	<= 0.2	<0.05
Chemical form		Mobile liquid	Mobile liquid
Chromium (Cr)	ppm	<= 0.005	<0.005
Cobalt (Co)	ppm	<= 0.005	<0.005
Copper (Cu)	ppm	<= 0.01	<0.005
Iron (Fe)	ppm	<= 0.1	<0.05
Lead (Pb)	ppm	<= 0.001	<0.001
Lithium (Li)	ppm	<= 0.002	<0.002
Magnesium (Mg)	ppm	<= 0.02	<0.01
Manganese (Mn)	ppm	<= 0.005	<0.005
Mercury (Hg)	ppm	<= 0.005	<0.005
Molybdenum (Mo)	ppm	<= 0.005	<0.005
Nickel (Ni)	ppm	<= 0.005	<0.005
Potassium (K)	ppm	<= 0.2	<0.02
Silver (Ag)	ppm	<= 0.005	<0.005
Sodium (Na)	ppm	<= 1	<0.05
Strontium (Sr)	ppm	<= 0.005	<0.005
Titanium (Ti)	ppm	<= 0.005	<0.005
Total phosphorus (P)	ppm	<= 0.2	<0.05
Total silicon (Si)	ppm	<= 0.5	<0.05
Total sulfur (S)	ppm	<= 0.5	<0.5
Vanadium (V)	ppm	<= 0.005	<0.005
Visual colour		Clear colourless	Clear colourless
Wt/ml at 20C	g	>= 1.05 and <= 1.15	1.1047
Zinc (Zn)	ppm	<= 0.02	<0.02



Ashok Ganatra
Supervisor, QC

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 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

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.

its intended use.

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