

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/1020
Lot Number	2531638
Description	Hydrochloric acid 25%. Low in Cadmium, Lead and Mercury AR For analysis
Quality Test/Release Date	10/Apr/2025
Expiry Phrase	Use within 5 yrs opening
Country of Origin	United Kingdom

Result Name	Units	Specifications	Test Value
Aluminium (Al)	ppm	<= 0.2	<0.05
Arsenic (As)	ppm	<= 0.01	<0.01
Assay	%	>= 25	25.27
Barium (Ba)	ppm	<= 0.05	<0.05
Beryllium (Be)	ppm	<= 0.02	<0.005
Bismuth (Bi)	ppm	<= 0.05	<0.005
Cadmium (Cd)	ppm	<= 0.01	<0.005
Calcium (Ca)	ppm	<= 1	<0.5
Chemical form		Mobile liquid	Mobile liquid
Chromium (Cr)	ppm	<= 0.02	<0.01
Cobalt (Co)	ppm	<= 0.01	<0.005
Colour	APHA	<= 10	<5
Copper (Cu)	ppm	<= 0.02	<0.01
Free chlorine (ppm)	ppm	<= 1	<1
Germanium (Ge)	ppm	<= 0.05	<0.005
Iron (Fe)	ppm	<= 0.2	<0.1
Lead (Pb)	ppm	<= 0.02	<0.005
Lithium (Li)	ppm	<= 0.01	<0.01
Magnesium (Mg)	ppm	<= 0.2	<0.02
Manganese (Mn)	ppm	<= 0.01	<0.005
Mercury (Hg)	ppm	<= 0.01	<0.005
Molybdenum (Mo)	ppm	<= 0.02	<0.005
Nickel (Ni)	ppm	<= 0.02	<0.01
Potassium (K)	ppm	<= 0.1	<0.05
Sodium (Na)	ppm	<= 0.5	<0.1
Strontium (Sr)	ppm	<= 0.01	<0.005
Sulfate (SO4) (ppm)	ppm	<= 1	<1
Thallium (Tl)	ppm	<= 0.05	<0.005
Titanium (Ti)	ppm	<= 0.05	<0.005
Vanadium (V)	ppm	<= 0.01	<0.005
Visual colour		Clear colourless	Clear colourless
Zinc (Zn)	ppm	<= 0.05	<0.05
Zirconium (Zr)	ppm	<= 0.05	<0.005



Ashok Ganatra
Supervisor, QC

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.

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 its intended use.

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