

## 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	42379
Lot Number	B0790993
Description	HYDROCHLORIC ACID, REAGENT ACS
CAS Number	7647-01-0
Quality Test/Release Date	19/May/2025
Suggested retest date	24/Feb/2027
Country of Origin	Canada
Declaration of Origin	Inorganic-non animal
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	Colorless and free of sediment
AMMONIUM (NH <sub>4</sub> )	ppm	<= 3	<3
ARSENIC (As)	ppm	<= 0.01	<0.01
ASSAY	%	Inclusive Between 36.5 - 38.0	37.0
BROMIDE	%	<= 0.005	<0.005
COLOR	APHA	<= 10	<10
EXTRACTABLE ORGANIC SUBSTANCES	ppm	<= 5	<5
FREE CHLORINE (Cl <sub>2</sub> )	ppm	<= 1	<1
HEAVY METALS (as Pb)	ppm	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	ppm	<= 0.2	<0.2
RESIDUE AFTER IGNITION	ppm	<= 5	<5
SULFATE (SO <sub>4</sub> )	ppm	<= 1	<1
SULFITE	ppm	<= 1	<1



Matthew Micek  
QC Supervisor

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.

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.