Certificate of Analysis



Product Name: Item #: Lot #: HYDROCHLORIC ACID, 32-38%, VERITAS REDISTILLED 2180 21010234

Certified Values:

Specifications (Max Limits or as Specified)	Pass/Fail	Numerical Results
Assay 32.0 - 38.0 %	Pass	37.6
Residue after ignition 0.0001 % Max	Pass	< 0.0001
Sulfate 0.00001 % Max	Pass	< 0.00001
Sulfite 0.00001 % Max	Pass	< 0.00001
Ammonium 0.00002 % Max	Pass	< 0.00001
Arsenic 0.0000001 % Max	Pass	< 0.0000001
Boron 0.0000002 % Max	Pass	< 0.000002
Silicon 0.000001 % Max	Pass	< 0.000001
Ag 5.0 ppb Max	Pass	< 0.1
Al 1.0 ppb Max	Pass	0.2
Au 1.0 ppb Max	Pass	< 0.1
Ba 1.0 ppb Max	Pass	< 0.1
Be 1.0 ppb Max	Pass	< 0.1
Bi 1.0 ppb Max	Pass	< 0.1
Ca 10.0 ppb Max	Pass	1.0
Cd 1.0 ppb Max	Pass	< 0.1

Not for direct use in food, cosmetics, finished pharmaceuticals or drug products. Supplier is not responsible for compliance with FDA Current Good Manufacturing Practice(cGMP) requirements, including without limitation those for finished drug products in 21 C.F.R Parts 210 and 211.Consult warranty limitations at www.gfschemicals.com/Terms-And-Conditions For resale by GFS authorized distributors only.

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Ce 1.0 ppb Max	Pas	ss < 0.1
Co 1.0 ppb Max	Pas	ss < 0.1
Cr 1.0 ppb Max	Pas	ss < 0.1
Cs 1.0 ppb Max	Pas	ss < 0.1
Cu 1.0 ppb Max	Pas	ss < 0.1
Dy 1.0 ppb Max	Pas	ss < 0.1
Er 1.0 ppb Max	Pas	ss < 0.1
Eu 1.0 ppb Max	Pas	ss < 0.1
Fe 5.0 ppb Max	Pas	ss 0.9
Ga 1.0 ppb Max	Pas	ss < 0.1
Gd 1.0 ppb Max	Pas	ss < 0.1
Ge 1.0 ppb Max	Pas	ss < 0.1
Hf 1.0 ppb Max	Pas	ss < 0.1
Hg 1.0 ppb Max	Pas	ss < 0.1
Ho 1.0 ppb Max	Pas	ss < 0.1
In 1.0 ppb Max	Pas	ss < 0.1
Ir 1.0 ppb Max	Pas	ss < 0.1
K 5.0 ppb Max	Pas	ss 0.1
La 1.0 ppb Max	Pas	ss < 0.1
Li 2.0 ppb Max	Pat	ss < 0.1
Lu 1.0 ppb Max	Pas	ss < 0.1

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Mg 2.0 ppb Max	Pas	s 0.2
Mn 1.0 ppb Max	Pas	s < 0.1
Mo 1.0 ppb Max	Pas	s < 0.1
Na 5.0 ppb Max	Pas	s 0.5
Nb 1.0 ppb Max	Pas	s < 0.1
Ni 1.0 ppb Max	Pas	s < 0.1
Os 1.0 ppb Max	Pas	s < 0.1
Pb 3.0 ppb Max	Pas	s < 0.1
Pd 1.0 ppb Max	Pas	s < 0.1
Pr 1.0 ppb Max	Pas	s < 0.1
Pt 1.0 ppb Max	Pas	s < 0.1
Rb 1.0 ppb Max	Pas	s < 0.1
Rh 1.0 ppb Max	Pas	s < 0.1
Ru 1.0 ppb Max	Pas	s < 0.1
Sb 1.0 ppb Max	Pas	s < 0.1
Sc 1.0 ppb Max	Pas	s < 0.1
Se 1.0 ppb Max	Pas	s < 0.1
Sm 1.0 ppb Max	Pas	s < 0.1
Sn 1.0 ppb Max	Pas	s < 0.1
Sr 1.0 ppb Max	Pas	s < 0.1
Tb 1.0 ppb Max	Pas	s < 0.1
Te 1.0 ppb Max	Pas	s < 0.1

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Th 1.0 ppb Max	Pass	< 0.1
Ti 1.0 ppb Max	Pass	< 0.1
U 1.0 ppb Max	Pass	< 0.1
V 1.0 ppb Max	Pass	< 0.1
W 1.0 ppb Max	Pass	< 0.1
Y 1.0 ppb Max	Pass	< 0.1
Yb 1.0 ppb Max	Pass	< 0.1
Zn 2.0 ppb Max	Pass	0.2
Zr 1.0 ppb Max	Pass	< 0.1

Status

Pass

Comments

Certificate Create By:	Ryan Walsh
Best by:	December 23, 2025
Print Date:	Nov 19, 2021

Signature on File

ISO 17025 Testing

All ISO 17025 testing is performed at GFS Chemicals, Inc. 800 Kaderly Dr, Columbus, OH 43228 USA UV/Vis Spectrophotometer testing is performed according to ASTM methods D6855-17 and ASTM D7315-17. Conductivity testing is performed according to ASTM method D1125-14. pH testing is performed according to ASTM method D1293-18. Karl Fischer titration testing is performed according to ASTM methods E203-16 and E1064-16.

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