

Certificate of Analysis



Product Name: NITRIC ACID, 69%, VERITAS REDISTILLED
Item #: 63
Lot #: 22100166

Certified Values:

Specifications (Max Limits or as Specified)	Pass/Fail	Numerical Results
Assay 68.00 - %	Pass	69.94
Chloride 0.00001 % Max	Pass	< 0.00001
Sulfate 0.00001 % Max	Pass	< 0.00001
Arsenic 0.0000001 % Max	Pass	< 0.0000001
Heavy Metals 0.000001 % Max	Pass	< 0.000001
Iron 0.000001 % Max	Pass	< 0.000001
Residue after ignition 0.0001 % Max	Pass	< 0.0001
Color (APHA) 10 Max	Pass	1
Al 5.00 ppb Max	Pass	< 0.10
Ag 1.00 ppb Max	Pass	< 0.10
Au 1.00 ppb Max	Pass	< 0.10
B 10.00 ppb Max	Pass	< 0.10
Ba 2.00 ppb Max	Pass	< 0.10
Be 1.00 ppb Max	Pass	< 0.10
Bi 1.00 ppb Max	Pass	< 0.10
Ca 10.00 ppb Max	Pass	0.47

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.

GFS Chemicals, Inc. P.O. Box 245 Powell, OH 43065 * Signed Orig. Doc. On File
1-800-858-9682 (U.S. and Canada) 1-740-881-5501 (International) 1-740-881-5989 (Fax)

Cd 1.00 ppb Max	Pass	< 0.10
Ce 1.00 ppb Max	Pass	< 0.10
Co 1.00 ppb Max	Pass	< 0.10
Cr 1.00 ppb Max	Pass	< 0.10
Cs 1.00 ppb Max	Pass	< 0.10
Cu 2.00 ppb Max	Pass	< 0.10
Dy 1.00 ppb Max	Pass	< 0.10
Er 1.00 ppb Max	Pass	< 0.10
Eu 1.00 ppb Max	Pass	< 0.10
Fe 5.00 ppb Max	Pass	< 0.10
Ga 1.00 ppb Max	Pass	< 0.10
Gd 1.00 ppb Max	Pass	< 0.10
Ge 1.00 ppb Max	Pass	< 0.10
Hg 2.00 ppb Max	Pass	0.25
Ho 1.00 ppb Max	Pass	< 0.10
In 1.00 ppb Max	Pass	< 0.10
Ir 1.00 ppb Max	Pass	< 0.10
K 2.00 ppb Max	Pass	< 0.10
La 1.00 ppb Max	Pass	< 0.10
Li 1.00 ppb Max	Pass	< 0.10
Lu 1.00 ppb Max	Pass	< 0.10

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Mg 2.00 ppb Max	Pass	< 0.10
Mn 1.00 ppb Max	Pass	< 0.10
Mo 1.00 ppb Max	Pass	< 0.10
Na 10.00 ppb Max	Pass	0.16
Nd 1.00 ppb Max	Pass	< 0.10
Ni 1.00 ppb Max	Pass	< 0.10
Os 1.00 ppb Max	Pass	< 0.10
Pb 1.00 ppb Max	Pass	< 0.10
Pd 1.00 ppb Max	Pass	< 0.10
Pr 1.00 ppb Max	Pass	< 0.10
Pt 1.00 ppb Max	Pass	< 0.10
Rb 1.00 ppb Max	Pass	< 0.10
Rh 1.00 ppb Max	Pass	< 0.10
Ru 1.00 ppb Max	Pass	< 0.10
Sb 1.00 ppb Max	Pass	< 0.10
Sc 1.00 ppb Max	Pass	< 0.10
Se 1.00 ppb Max	Pass	< 0.10
Sm 1.00 ppb Max	Pass	< 0.10
Sn 1.00 ppb Max	Pass	< 0.10
Sr 1.00 ppb Max	Pass	< 0.10
Tb 1.00 ppb Max	Pass	< 0.10
Te 1.00 ppb Max	Pass	< 0.10

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Th 1.00 ppb Max	Pass	< 0.10
Ti 1.00 ppb Max	Pass	< 0.10
U 1.00 ppb Max	Pass	< 0.10
V 1.00 ppb Max	Pass	< 0.10
W 1.00 ppb Max	Pass	< 0.10
Y 1.00 ppb Max	Pass	< 0.10
Yb 1.00 ppb Max	Pass	< 0.10
Zn 5.00 ppb Max	Pass	< 0.10
Zr 1.00 ppb Max	Pass	< 0.10

Status Pass

Comments

Certificate Create By: Catherine Myron
Best by: February 17, 2027
Print Date: May 31, 2022

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 method E169-16.
Turbidity 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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