

# Certificate of Analysis

**Product Name:** HYDROCHLORIC ACID, 37%, REAGENT (ACS)  
**Item #:** 625  
**Lot #:** 19460053



## Certified Values:

Specifications (Max Limits or as Specified)	Status	Results
Assay (as HCl) (%) 36.5 - 38.0 %	Pass	37.0
Appearance	Pass	Passes Test
Color (APHA) 10 Max	Pass	< 10
Residue after ignition 0.0005 % Max	Pass	< 0.0005
Bromide 0.005 % Max	Pass	< 0.005
Sulfate 0.0001 % Max	Pass	< 0.0001
Sulfite 0.0001 % Max	Pass	< 0.0001
Free chlorine (%) 0.0001 % Max	Pass	< 0.0001
Ammonium 0.0003 % Max	Pass	< 0.0003
Arsenic 0.000001 % Max	Pass	< 0.000001
Heavy Metals (by ICP-OES) 0.0001 % Max	Pass	< 0.0001
Iron 0.00002 % Max	Pass	< 0.00002

## Comments

**CoA #:** COA-049321  
**Certificate Created By:** Jacob Watson  
**CoA Creation Date:** December 5, 2019  
**Best by:** November 7, 2024  
**Print Date:** February 1, 2021

Signature on File

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/statics/documents/aboutus/termsandconditions.html](http://www.gfschemicals.com/statics/documents/aboutus/termsandconditions.html)  
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)

### **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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