

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Appearance	Passes test	Passes test
Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.4 %
Color (APHA)	≤ 10	5
Extractable Organic Substances	≤ 5 ppm	5 ppm
Free Chlorine (as Cl ₂)	≤ 1 ppm	1 ppm
Residue after Ignition	≤ 3 ppm	2 ppm
Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
Bromide (Br)	≤ 0.005 %	≤ 0.005 %
Phosphate (PO ₄)	≤ 1 ppm	1 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	≤ 0.5 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	≤ 0.8 ppm
Ammonium (NH ₄)	≤ 3 ppm	3 ppm
Trace Impurities – Aluminum (Al)	≤ 100.0 ppb	10.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	2.0 ppb
Trace Impurities – Boron (B)	≤ 50.0 ppb	3.0 ppb
Trace Impurities – Calcium (Ca)	≤ 200.0 ppb	40.0 ppb
Trace Impurities – Chromium (Cr)	≤ 100.0 ppb	4.0 ppb
Trace Impurities – Copper (Cu)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Gold (Au)	≤ 100.0 ppb	2.0 ppb
Heavy Metals (as Pb)	≤ 100.0 ppb	50.0 ppb
Trace Impurities – Iron (Fe)	≤ 100.0 ppb	40.0 ppb
Trace Impurities – Lead (Pb)	≤ 50.0 ppb	2.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 300.0 ppb	10.0 ppb
Trace Impurities – Manganese (Mn)	≤ 300.0 ppb	2.0 ppb
Trace Impurities – Mercury (Hg)	≤ 5.0 ppb	1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Potassium (K)	≤ 300.0 ppb	10.0 ppb
Trace Impurities – Sodium (Na)	≤ 300.0 ppb	40.0 ppb

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Hydrochloric Acid, 36.5–38.0%
BAKER ANALYZED® A.C.S. Reagent



Material No.: 9535-69
Batch No.: P21K106043

Test	Specification	Result
Trace Impurities – Tin (Sn)	≤ 300.0 ppb	2.0 ppb
Trace Impurities – Titanium (Ti)	≤ 300.0 ppb	4.0 ppb
Trace Impurities – Zinc (Zn)	≤ 100.0 ppb	2.0 ppb

For Laboratory, Research, or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Storage Condition: Store below 25 °C.

Country of Origin: Thailand


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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