

Certificate of Analysis



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FORM NO. FRM-01888 Rev1

Description:	Ammonium Hydroxide 29%		
Item Code:	200-0549	Packaging Size	200LT Drum
Batch No:	26262409157K	Customer/CMC spec:	KMG_5004.1
Manufacture Date:	19-Sep-2024	Customer Part Number:	NA
Expiry Date:	19-Sep-2026	Grade:	Grade 4

Parameter	Min	Max	Unit	Result
Assay (NH3)	28.00	29.00	%	28.73
Color		10	APHA	2
Chloride (Cl)		100	ppb	25
Nitrate (NO3)		100	ppb	18
Phosphate (PO4)		50	ppb	17
Sulfate (SO4)		100	ppb	23
Substance Reducing KMnO4				PASS
Aluminum (Al)		0.10	ppb	<0.01
Antimony (Sb)		0.10	ppb	<0.01
Arsenic (As)		0.10	ppb	<0.01
Barium (Ba)		0.10	ppb	<0.01
Beryllium (Be)		0.10	ppb	<0.01
Bismuth (Bi)		0.10	ppb	<0.01
Boron (B)		0.20	ppb	0.04
Cadmium (Cd)		0.10	ppb	<0.01
Calcium (Ca)		0.20	ppb	<0.02
Chromium (Cr)		0.10	ppb	<0.01
Cobalt (Co)		0.10	ppb	<0.01
Copper (Cu)		0.10	ppb	<0.01
Gallium (Ga)		0.10	ppb	<0.01
Germanium (Ge)		0.10	ppb	<0.01
Gold (Au)		0.10	ppb	<0.01
Iron (Fe)		0.10	ppb	<0.01
Lead (Pb)		0.10	ppb	<0.01
Lithium (Li)		0.10	ppb	<0.01
Magnesium (Mg)		0.10	ppb	<0.01
Manganese (Mn)		0.10	ppb	<0.01

Parameter	Min	Max	Unit	Result
Molybdenum (Mo)		0.10	ppb	<0.01
Nickel (Ni)		0.10	ppb	<0.01
Niobium (Nb)		0.10	ppb	<0.01
Potassium (K)		0.10	ppb	<0.01
Silicon (Si)		5.0	ppb	<0.5
Silver (Ag)		0.10	ppb	<0.01
Sodium (Na)		0.20	ppb	<0.02
Strontium (Sr)		0.10	ppb	<0.01
Tantalum (Ta)		0.10	ppb	<0.01
Thallium (Tl)		0.10	ppb	<0.01
Tin (Sn)		0.10	ppb	<0.01
Titanium (Ti)		0.10	ppb	<0.01
Vanadium (V)		0.10	ppb	<0.01
Zinc (Zn)		0.10	ppb	<0.01
Zirconium (Zr)		0.10	ppb	<0.01
0.2µ Particle Count		150	par/ml	34
0.5µ Particle Count		50	par/ml	<5
1.0µ Particle Count		10	par/ml	1

Approved on: 01-Nov-2024

This certificate of analysis is electronically issued and is valid without signature