

Item Number	A1187	Lot Number	2NE0183
Item	Ammonium Hydroxide, 29 Percent, Electronic/Cleanroom Grade	CAS Number	1336-21-6
Molecular Formula	NH ₄ OH	Molecular Weight	35.05

TEST	SPECIFICATION		RESULT
	MIN	MAX	
ASSAY (NH ₃)	28.0	30.0 %	28.59 %
COLOR (APHA)		10	1
SUBSTANCES REDUCING PERMANGANATE	TO PASS TEST		PASSES TEST
CARBON DIOXIDE (CO ₂)		20 ppm	<1 ppm
CHLORIDE (Cl)		500 ppb	<20 ppb
PHOSPHATE (PO ₄)		500 ppb	<40 ppb
TOTAL SULFUR (as SO ₄)		1 ppm	<0.02 ppm
ARSENIC AND ANTIMONY		50 ppb	<1.0 ppb
Aluminum (Al)		300 ppb	<1.0 ppb
BORON (B)		100 ppb	<1.0 ppb
CALCIUM (Ca)		300 ppb	<1.0 ppb
CHROMIUM (Cr)		200 ppb	<1.0 ppb
COPPER (Cu)		100 ppb	<1.0 ppb
GOLD (Au)		300 ppb	<1.0 ppb
IRON (Fe)		100 ppb	<1.0 ppb
LEAD (Pb)		200 ppb	<1.0 ppb
MAGNESIUM (Mg)		300 ppb	<1.0 ppb
MANGANESE (Mn)		200 ppb	<1.0 ppb
NICKEL (Ni)		100 ppb	<1.0 ppb
POTASSIUM (K)		300 ppb	<1.0 ppb
SODIUM (Na)		300 ppb	<1.0 ppb
TIN (Sn)		200 ppb	<1.0 ppb
TITANIUM (Ti)		300 ppb	<1.0 ppb
ZINC (Zn)		300 ppb	<1.0 ppb
PARTICLE COUNT (>=1.0 MICRON)		25 partcls/ml	1 partcls/mL
APPEARANCE			CLEAR COLORLESS LIQUID
EXPIRATION DATE			01-NOV-2025
DATE OF MANUFACTURE			27-NOV-2023

Certificate of Analysis Results Entered By:

MCAMACHO
Matheu Camacho
30-MAY-24 07:20:54

Certificate of Analysis Results Approved By:

RVANZILE
Robert Van Zile
03-JUN-24 14:19:02

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All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

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