

ANALYSIS CERTIFICATE

CODE: 141130

BATCH: 0001460747

PRODUCT: Ammonia 30% (as NH₃) (USP-NF, BP, Ph. Eur.) pure, pharma grade

ISSUE DATE: 19/06/2018

RETEST DATE: 06/2024

SPECIFICATIONS	GUARANTEE VALUE	ACTUAL VALUE
Assay (Acidim.)	27,0-30,0 %*	29,0 %*
Identity according to Pharmacopoeias:	passes test	Passes test
Density 20/20	0,892-0,901*	0,894*
Maximum limit of impurities		
Appearance of solution	passes test	Passes test
Insoluble matter in H ₂ O	passes test	Passes test
Non-volatile matter	0,002 %	0,0008 %
Reducing substances to KMnO ₄	passes test	Passes test
Residue on ignition	0,01 %	0,002 %
Chloride (Cl)	0,0001%	<0,0001%
Sulphur compounds (as SO ₄)	0,0005 %	<0,0005 %
Phosphate (PO ₄)	0,0005 %	<0,0005 %
Carbonate (as CO ₃)	0,005%	<0,005%
Residual solvents (Ph.Eur/USP)	passes test	Passes test
Pyridine and homologues (as C ₆ H ₅ N)	0,0002%	<0,0002%
Heavy metals (as Pb)	0,0001%	<0,0001%
Ca	0,001 %	<0,001 %
Fe	0,000025 %	<0,000025 %
Mg	0,001 %	<0,001 %
Elemental impurities (ICH Q3D):		
Class 1		
Cd	0,5 ppm	<0,5 ppm
Pb	0,5 ppm	<0,5 ppm
As	0,4 ppm	<0,4 ppm
Hg	1,5 ppm	<1,5 ppm
Class 2A		
Co	5 ppm	<5 ppm
V	10 ppm	<10 ppm
Ni	20 ppm	<20 ppm
Class 2B		
Tl	0,8 ppm	<0,8 ppm
Au	10 ppm	<10 ppm
Pd	10 ppm	<10 ppm
Ir	10 ppm	<10 ppm
Os	10 ppm	<10 ppm
Rh	10 ppm	<10 ppm
Ru	10 ppm	<10 ppm
Se	15 ppm	<15 ppm
Ag	15 ppm	<15 ppm
Pt	10 ppm	<10 ppm
Class 3		
Li	55 ppm	<55 ppm
Sb	120 ppm	<120 ppm
Ba	140 ppm	<140 ppm
Mo	25 ppm	<25 ppm
Cu	250 ppm	<250 ppm
Sn	600 ppm	<600 ppm
Cr	25 ppm	<25 ppm

* At the moment of the batch analysis.

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Quality Assurance Director
Director de Garantía Calidad
P. Verge

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