

ANALYSIS CERTIFICATE

CODE: 141130

BATCH: 0001146444

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

ISSUE DATE: 27/06/2017

RETEST DATE: 06/2023

SPECIFICATIONS	GUARANTEE VALUE	ACTUAL VALUE
Assay (Acidim.)	27,0-30,0 %*	28,2 %*
Identity according to Pharmacopoeias:	passes test	Passes test
Density 20/20	0,892-0,901*	0,897*
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 %	0,001 %
Reducing substances to KMnO ₄	passes test	Passes test
Residue on ignition	0,01 %	0,001 %
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%
Residual metals ICP: (according to EMEA/CHMP/SWP/4446/2000)		
Class 1A (Pt, Pd)	10 ppm	<10 ppm
Class 1B (Ir, Rh, Ru, Os)	10 ppm	<10 ppm
Class 1C (Mo, Ni, Cr, V)	25 ppm	<25 ppm
Class 2 (Cu, Mn)	250 ppm	<250 ppm
Class 3 (Zn)	1.300 ppm	<1.300 ppm
As	0,00004 %	<0,00004 %
Ca	0,001 %	<0,001 %
Fe	0,000025 %	<0,000025 %
Mg	0,001 %	<0,001 %
Pb	0,0001 %	<0,0001 %

* At the moment of the batch analysis.

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