

ANALYSIS CERTIFICATE

CODE: 141037

BATCH: 0001589706

PRODUCT: Nitric Acid 69% (USP-NF, BP, Ph. Eur.) pure, pharma grade

ISSUE DATE: 19/10/2018

RETEST DATE: 10/2024

SPECIFICATIONS	GUARANTEE VALUE	ACTUAL VALUE
Assay (Acidim.)	69,0-70,0 %	69,7 %
Identity according to Pharmacopoeias:	passes test	Passes test
Maximum limit of impurities		
Appearance of solution	passes test	Passes test
Residue on ignition (as SO ₄)	0,0005 %	0,0002 %
Chloride (Cl)	0,00005%	<0,00005%
Sulphate (SO ₄)	0,0001%	<0,0001%
Clarity and colour	passes test	Passes test
Residual solvents (Ph.Eur/USP)	passes test	Passes test
Heavy metals (as Pb)	0,00002%	<0,00002%
Fe	0,00002 %	<0,00002 %
Elemental impurities (ICH Q3D):		
Class 1		
Cd	0,5 ppm	<0,5 ppm
Pb	0,2 ppm	<0,2 ppm
As	0,01 ppm	<0,01 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

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