

ANALYSIS CERTIFICATE

CODE: 141020

BATCH: 0001368126

PRODUCT: Hydrochloric Acid 37% (USP-NF, BP, Ph. Eur.) pure, pharma grade

ISSUE DATE: 03/04/2018

RETEST DATE: 03/2024

SPECIFICATIONS	GUARANTEE VALUE	ACTUAL VALUE
Assay (Acidim.)	36,5-38,0 %	37,5%
Identity according to Pharmacopoeias:	passes test	Passes test
Maximum limit of impurities		
Appearance of solution	passes test	Passes test
Non-volatile matter	0,01 %	0,001 %
Residue on ignition (as SO ₄)	0,005 %	0,0004 %
Chlorine (Ph. Eur.)	0,0004%	<0,0004%
Ammonium (NH ₄)	0,001%	<0,001%
Sulphate (SO ₄)	0,0005%	<0,0005%
Sulphate (SO ₄) (USP-NF)	passes test	Passes test
Sulphite (USP-NF)	passes test	Passes test
Residual solvents (Ph.Eur/USP)	passes test	Passes test
Bromine or Chlorine (USP-NF)	passes test	Passes test
Bromide or Iodide (USP-NF)	passes test	Passes test
Heavy metals (as Pb)	0,0002%	<0,0002%
Elemental impurities (ICH Q3D):		
Class 1		
Cd	0,5 ppm	<0,5 ppm
Pb	0,5 ppm	<0,5 ppm
As	1,5 ppm	<1,5 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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