

ANALYSIS CERTIFICATE

CODE: 141020

BATCH: 0001114034

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

ISSUE DATE: 30/05/2017

RETEST DATE: 05/2023

SPECIFICATIONS	GUARANTEE VALUE	ACTUAL VALUE
Assay (Acidim.)	36,5-38,0 %	37,6 %
Identity according to Pharmacopoeias:	passes test	Passes test
Maximum limit of impurities		
Appearance of solution	passes test	Passes test
Non-volatile matter	0,01 %	0,002 %
Residue on ignition (as SO ₄)	0,005 %	0,001 %
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%
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 (Fe, Zn)	1.300 ppm	<1.300 ppm

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