

ANALYSIS CERTIFICATE

CODE: 141020

BATCH: 0000767031

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

ISSUE DATE: 22/02/2016

RETEST DATE: 02/2022

| 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 % | 0,0002 % |
| Residue on ignition (as SO ₄) | 0,005 % | 0,0005 % |
| 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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