

**Scharlab S.L.**

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**CERTIFICATE OF ANALYSIS**

Product Hydrochloric acid, 37%, extra pure, Pharmapur®, Ph Eur, BP, NF, JP

Batch 19151208

**AC0736**

Quality release date 26/08/2018

Expiry date 08/2023

| Analysis                                  | Batch value          | Specifications       |
|-------------------------------------------|----------------------|----------------------|
| Assay (Acidimetric)                       | 37,73 %              | 36,5 - 38,0          |
| Identification                            | passes test          | passes test          |
| Appearance of solution                    | clear and colourless | clear and colourless |
| Bromine or chlorine                       | passes test          | passes test          |
| Bromide or iodide                         | passes test          | passes test          |
| Free bromine or chlorine                  | passes test          | passes test          |
| Free chlorine (as Cl)                     | < 0,0004 %           | ≤ 0,0004             |
| Sulfates (SO <sub>4</sub> )               | < 0,0020 %           | ≤ 0,0020             |
| Sulfates (SO <sub>4</sub> )               | passes test          | passes test          |
| Sulfites (SO <sub>3</sub> )               | passes test          | passes test          |
| Arsenic (As)                              | < 0,0001 %           | ≤ 0,0001             |
| Heavy metals (as Pb)                      | < 0,0005 %           | ≤ 0,0005             |
| Mercury (Hg)                              | < 0,000004 %         | ≤ 0,000004           |
| Residue on ignition (as SO <sub>4</sub> ) | < 0,008 %            | ≤ 0,008              |
| Residue on evaporation                    | < 0,01 %             | ≤ 0,01               |

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.