

**ANALYSIS CERTIFICATE**

**CODE:** 141067

**BATCH:** 0000816401

**PRODUCT:** Trichloroacetic Acid (BP, Ph. Eur.) pure, pharma grade

**ISSUE DATE:** 25/04/2016

**RETEST DATE:** 04/2019

| SPECIFICATIONS                                              | GUARANTEE VALUE | ACTUAL VALUE |
|-------------------------------------------------------------|-----------------|--------------|
| Assay (Acidim.) calc. a.d.s.                                | 99,0-100,5%     | 99,8%        |
| Identity according to Pharmacopoeias:                       | passes test     | Passes test  |
| Maximum limit of impurities                                 |                 |              |
| Appearance of solution                                      | passes test     | Passes test  |
| Insoluble matter in H <sub>2</sub> O                        | 0,01 %          | <0,01 %      |
| Loss on drying                                              | 1,0%            | <1,0%        |
| Residue on ignition (as SO <sub>4</sub> )                   | 0,05 %          | 0,002 %      |
| Chloride (Cl)                                               | 0,005%          | <0,005%      |
| Sulphate (SO <sub>4</sub> )                                 | 0,05%           | <0,05%       |
| Nitrate (NO <sub>3</sub> )                                  | 0,02%           | <0,02%       |
| 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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