

## ANALYSIS CERTIFICATE

**CODE:** 141007

**BATCH:** 0001351714

**PRODUCT:** Acetone (USP, BP, Ph. Eur.) pure, pharma grade

**ISSUE DATE:** 13/03/2018

**RETEST DATE:** 03/2024

| SPECIFICATIONS                           | GUARANTEE VALUE | ACTUAL VALUE |
|------------------------------------------|-----------------|--------------|
| Minimum assay (G.C.)                     | 99,5%           | 99,9%        |
| Identity according to Pharmacopoeias:    | passes test     | Passes test  |
| Density 25/25                            | <= 0,789        | <0,789       |
| Density 20/20                            | 0,790-0,793     | 0,791        |
| Maximum limit of impurities              |                 |              |
| Appearance of solution                   | passes test     | Passes test  |
| Acidity                                  | passes test     | Passes test  |
| Alkalinity                               | passes test     | Passes test  |
| Insoluble matter in H <sub>2</sub> O     | passes test     | Passes test  |
| Non-volatile matter                      | 0,004 %         | 0,0002 %     |
| Reducing substances to KMnO <sub>4</sub> | passes test     | Passes test  |
| Related substances (G.C.)                |                 |              |
| Residual solvents (Ph.Eur/USP)           | passes test     | Passes test  |
| Methanol                                 | 0,05 %          | <0,05 %      |
| 2-Propanol                               | 0,05 %          | <0,05 %      |
| Benzene                                  | 0,0002 %        | <0,0002 %    |
| Other impurities                         | 0,05 %          | <0,05 %      |
| Ethanol (G.C.)                           | 500 ppm         | <500 ppm     |
| Water (H <sub>2</sub> O)                 | 0,3 %           | 0,03 %       |
| 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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**P. Verge**

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