

**Scharlab S.L.**

Crtra.Polinya a Sentmenat, Km 8,2

08181 Sentmenat

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**CERTIFICATE OF ANALYSIS****ME0315\_21054607/1**

Product Methanol, Multisolvant® HPLC grade ACS ISO UV-VIS K.F.

Batch 21054607

**ME0315**

Quality release date 03/09/2020

Expiry date 09/2025

| Analysis                   | Batch value   | Specifications |
|----------------------------|---------------|----------------|
| Assay (G.C.)               | 99,99 %       | ≥ 99,9         |
| Identity (IR-Spectrum)     | passes test   | passes test    |
| Density (20°/20°)          | 0,7930 g/mL   | 0,791 - 0,793  |
| Appearance                 | clear         | clear          |
| Colour (Hazen)             | 1             | ≤ 10           |
| Boiling point              | 64 - 65 ° C   | 64 - 65        |
| Solubility in water        | passes test   | passes test    |
| Acidity                    | 0,00008 meq/g | ≤ 0,0002       |
| Alkalinity                 | 0,00001 meq/g | ≤ 0,0002       |
| Chlorides (Cl)             | < 0,5 ppm     | ≤ 0,5          |
| Sulfates (SO4)             | < 1 ppm       | ≤ 1            |
| Aluminium (Al)             | < 0,1 ppm     | ≤ 0,1          |
| Arsenic (As)               | < 0,02 ppm    | ≤ 0,02         |
| Barium (Ba)                | < 0,1 ppm     | ≤ 0,1          |
| Beryllium (Be)             | < 0,02 ppm    | ≤ 0,02         |
| Bismuth (Bi)               | < 0,02 ppm    | ≤ 0,02         |
| Boron (B)                  | < 0,02 ppm    | ≤ 0,02         |
| Cadmium (Cd)               | < 0,05 ppm    | ≤ 0,05         |
| Calcium (Ca)               | < 0,5 ppm     | ≤ 0,5          |
| Chromium (Cr)              | < 0,02 ppm    | ≤ 0,02         |
| Cobalt (Co)                | < 0,02 ppm    | ≤ 0,02         |
| Copper (Cu)                | < 0,02 ppm    | ≤ 0,02         |
| Gallium (Ga)               | < 0,02 ppm    | ≤ 0,02         |
| Gold (Au)                  | < 0,02 ppm    | ≤ 0,02         |
| Indium (In)                | < 0,02 ppm    | ≤ 0,02         |
| Iron (Fe)                  | < 0,1 ppm     | ≤ 0,1          |
| Lead (Pb)                  | < 0,1 ppm     | ≤ 0,1          |
| Lithium (Li)               | < 0,05 ppm    | ≤ 0,05         |
| Magnesium (Mg)             | < 0,1 ppm     | ≤ 0,1          |
| Manganese (Mn)             | < 0,02 ppm    | ≤ 0,02         |
| Molybdenum (Mo)            | < 0,02 ppm    | ≤ 0,02         |
| Nickel (Ni)                | < 0,02 ppm    | ≤ 0,02         |
| Platinum (Pt) ppm          | < 0,05 ppm    | ≤ 0,05         |
| Silver (Ag)                | < 0,02 ppm    | ≤ 0,02         |
| Thallium (Tl)              | < 0,02 ppm    | ≤ 0,02         |
| Tin (Sn)                   | < 0,1 ppm     | ≤ 0,1          |
| Titanium (Ti)              | < 0,02 ppm    | ≤ 0,02         |
| Vanadium (V)               | < 0,02 ppm    | ≤ 0,02         |
| Zinc (Zn)                  | < 0,1 ppm     | ≤ 0,1          |
| Zirconium (Zr)             | < 0,02 ppm    | ≤ 0,02         |
| Carbonyl compounds (as CO) | < 0,001 %     | ≤ 0,001        |

Results marked with # are out of specifications.

This certificate does not exempt the user from checking the results upon receipt of the goods.

Any copy of our CoA may be obtained from our website at [www.scharlab.com](http://www.scharlab.com)Ricard Balladares Abella  
Laboratory Technician



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| Analysis                                              | Batch value | Specifications |
|-------------------------------------------------------|-------------|----------------|
| Carbonyl compounds                                    | passes test | passes test    |
| Substances darkened by H <sub>2</sub> SO <sub>4</sub> | passes test | passes test    |
| Substances reducing KMnO <sub>4</sub>                 | passes test | passes test    |
| Residue on evaporation                                | 1,6 ppm     | ≤ 2            |
| Water (K.F.)                                          | 0,017 %     | ≤ 0,03         |
| Liquid chromatography suitability absorbance          | passes test | passes test    |
| UV Spectroscopy in a 1,0 cm cell:                     |             |                |
| min. transmission at 207 nm                           | 18,84 %     | ≥ 10           |
| min. transmission at 210 nm                           | 31,30 %     | ≥ 20           |
| min. transmission at 220 nm                           | 58,18 %     | ≥ 50           |
| min. transmission at 225 nm                           | 68,00 %     | ≥ 68           |
| min. transmission at 230 nm                           | 80,00 %     | ≥ 74           |
| min. transmission at 240 nm                           | 90,50 %     | ≥ 80           |
| min. transmission at 250 nm                           | 96,20 %     | ≥ 96           |
| min. transmission between 260 and 400 nm              | 99,88 %     | ≥ 98           |
| max. absorbance at 207 nm                             | 0,725 AU    | ≤ 1,000        |
| max. absorbance at 210 nm                             | 0,504 AU    | ≤ 0,700        |
| max. absorbance at 220 nm                             | 0,235 AU    | ≤ 0,300        |
| max. absorbance at 225 nm                             | 0,167 AU    | ≤ 0,170        |
| max. absorbance at 230 nm                             | 0,097 AU    | ≤ 0,130        |
| max. absorbance at 240 nm                             | 0,043 AU    | ≤ 0,100        |
| max. absorbance at 250 nm                             | 0,017 AU    | ≤ 0,020        |
| max. absorbance at 260 - 400 nm                       | 0,001 AU    | ≤ 0,010        |

Microfiltered through membranes of pore diameter 0,22 µm.

For laboratory use only.

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