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**CERTIFICATE OF ANALYSIS****ET0010\_23903706/1**

|                                   |                                       |                       |            |
|-----------------------------------|---------------------------------------|-----------------------|------------|
| Product                           | Ethanol absolute, gradient HPLC grade | Batch                 | 23903706   |
| <b>ET0010</b>                     |                                       | Quality release date  | 12/06/2023 |
|                                   |                                       | Expiry date           | 06/2028    |
| <b>Analysis</b>                   | <b>Batch value</b>                    | <b>Specifications</b> |            |
| Assay (G.C.) (v/v)                | 99,99 %                               | ≥ 99,9                |            |
| Identity (IR-Spectrum)            | passes test                           | passes test           |            |
| Density (20°/4°)                  | 0,7896 g/mL                           | 0,789 - 0,790         |            |
| Acidity                           | 0,00013 meq/g                         | ≤ 0,0002              |            |
| Alkalinity                        | 0,00001 meq/g                         | ≤ 0,0002              |            |
| Residue on evaporation            | 0,0002 %                              | ≤ 0,0002              |            |
| Water (v/v) (K.F.)                | 0,0538 %                              | ≤ 0,1                 |            |
| Gradient grade (254 nm):          |                                       |                       |            |
| maximum background absorbance:    | < 0,02 AU                             | ≤ 0,02                |            |
| maximum peak absorbance:          | < 0,002 AU                            | ≤ 0,002               |            |
| UV Spectroscopy in a 1,0 cm cell: |                                       |                       |            |
| min. transmission at 205 nm       | 33,50 %                               | ≥ 20                  |            |
| min. transmission at 220 nm       | 87,73 %                               | ≥ 50                  |            |
| min. transmission at 245 nm       | 98,73 %                               | ≥ 90                  |            |
| min. transmission at 260 nm       | 99,88 %                               | ≥ 98                  |            |
| max. absorbance at 205 nm         | 0,475 AU                              | ≤ 0,699               |            |
| max. absorbance at 220 nm         | 0,057 AU                              | ≤ 0,301               |            |
| max. absorbance at 245 nm         | 0,006 AU                              | ≤ 0,046               |            |
| max. absorbance at 260 nm         | 0,001 AU                              | ≤ 0,009               |            |

Microfiltered through membranes of pore diameter 0,22 µm.

Suitable for UPLC.

For laboratory use only