

**Scharlab S.L.**

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**CERTIFICATE OF ANALYSIS**

Product: **Ethanol absolute, extra pure, Ph Eur, BP, USP**  
ET0006

Batch 14696801  
Test date 06/09/2013  
Shelf life 9/2018

| Analysis                                       | Batch value                       | Specifications                    |
|------------------------------------------------|-----------------------------------|-----------------------------------|
| assay (G.C.) (v/v)                             | 99,97 %                           | min. 99,9 %                       |
| assay (G.C.) (w/w)                             | 99,94 %                           | min. 99,83 %                      |
| identification                                 | passes test                       | passes test                       |
| density (20°/20°)                              | 0,7908                            | 0,790 - 0,793                     |
| appearance                                     | clear and colourless              | clear and colourless              |
| colour (Hazen)                                 | 5                                 | max. 10                           |
| acidity or alkalinity (as acetic acid)         | 0,0012 %                          | max. 0,003 %                      |
| acetaldehyde + acetal (as CH <sub>3</sub> CHO) | < 0,001 %                         | max. 0,001 %                      |
| benzene (G.C.)                                 | < 0,00001 %                       | max. 0,0002 %                     |
| methanol (G.C.)                                | 0,001 %                           | max. 0,02 %                       |
| total of other impurities (G.C.)               | < 0,01 %                          | max. 0,03 %                       |
| reducing substances                            | passes test                       | passes test                       |
| non-volatile matter                            | 0,0005 %                          | max. 0,001 %                      |
| water (v/v) (K.F.)                             | 0,03 %                            | max. 0,1 %                        |
| residual solvents (Ph Eur/ICH) class3          | < 0,5 %                           | max. 0,5 %                        |
| other residual solvents (Ph Eur/ICH)           | excluded by<br>production process | excluded by<br>production process |
| absorbance in a 5,0 cm cell                    |                                   |                                   |
| at 240 nm                                      | 0,25                              | max. 0,40                         |
| between 250 nm and 260 nm                      | 0,09                              | max. 0,30                         |
| between 270 nm and 340 nm                      | 0,01                              | max. 0,10                         |

This certificate does not release the user from their control upon receipt of the goods  
You can get a copy of any of our COA from our web site: [www.scharlab.com](http://www.scharlab.com)

A. Torres  
Laboratory Manager