

**Scharlab S.L.**

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CERTIFICATE OF ANALYSIS

Product Ethanol absolute, Multisolvant® HPLC grade ACS ISO UV-VIS

Batch 19948807

ET0015

Quality release date 26/06/2019

Expiry date 06/2024

Analysis	Batch value	Specifications
Assay (G.C.) (v/v)	99,99 %	≥ 99,9
Identity (IR-Spectrum)	passes test	passes test
Density (20°/4°)	0,7895 g/mL	0,789 - 0,791
Appearance	Clear	clear
Colour (Hazen)	2	≤ 10
Solubility in water	passes test	passes test
Acidity	0,00013 meq/g	≤ 0,0002
Alkalinity	0,00001 meq/g	≤ 0,0002
Chlorides (Cl)	< 0,00003 %	≤ 0,00003
Nitrates (NO ₃)	< 0,00003 %	≤ 0,00003
Phosphates (as PO ₄)	< 0,00003 %	≤ 0,00003
Sulfates (SO ₄)	< 0,00003 %	≤ 0,00003
Acetone (G.C.)	0,0006 %	≤ 0,001
Isoamyl alcohol (G.C.)	0,0006 %	≤ 0,05
Methylethylketone (G.C.)	< 0,0200 %	≤ 0,02
2-Propanol (G.C.)	0,0013 %	≤ 0,003
Volatile impurities:		
Methanol (G.C.)	< 0,0100 %	≤ 0,01
Benzene (G.C.)	< 0,0002 %	≤ 0,0002
Carbonyl compounds (as CO)	< 0,003 %	≤ 0,03
Higher alcohols (G.C.)	< 0,010 %	≤ 0,01
Substances reducing KMnO ₄	passes test	passes test
Substances darkened by H ₂ SO ₄	passes test	passes test
Residue on evaporation	0,0002 %	≤ 0,0004
Water (v/v) (K.F.)	0,0392 %	≤ 0,1
Liquid chromatography suitability absorbance	passes test	passes test
UV Spectroscopy in a 1,0 cm cell:		
min. transmission at 220 nm	75,19 %	≥ 55
min. transmission at 230 nm	86,72 %	≥ 72
min. transmission at 245 nm	96,18 %	≥ 90
min. transmission at 270 nm	99,87 %	≥ 98
max. absorbance at 220 nm	0,124 AU	≤ 0,260
max. absorbance at 230 nm	0,062 AU	≤ 0,143
max. absorbance at 245 nm	0,017 AU	≤ 0,046
max. absorbance at 270 nm	0,001 AU	≤ 0,009

Microfiltered through membranes of pore diameter 0,22 µm.

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

M. Canet
Laboratory Manager