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CERTIFICATE OF ANALYSIS**ET0015_21467307/1**

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

Batch 21467307

ET0015

Quality release date 02/02/2021

Expiry date 02/2026

Analysis	Batch value	Specifications
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 - 0,791
Appearance	Clear	clear
Colour (Hazen)	4	≤ 10
Solubility in water	passes test	passes test
Acidity	0,00002 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.)	< 0,001 %	≤ 0,001
Benzene (G.C.)	< 0,0002 %	≤ 0,0002
Isoamyl alcohol (G.C.)	< 0,001 %	≤ 0,05
Methanol (G.C.)	0,0004 %	≤ 0,01
Methylethylketone (G.C.)	< 0,001 %	≤ 0,02
2-Propanol (G.C.)	0,0001 %	≤ 0,003
Carbonyl compounds (as CO)	< 0,03 %	≤ 0,03
Higher alcohols (G.C.)	< 0,005 %	≤ 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.)	0,03 %	≤ 0,1
Liquid chromatography suitability absorbance	passes test	passes test
UV Spectroscopy in a 1,0 cm cell:		
min. transmission at 220 nm	65,88 %	≥ 55
min. transmission at 230 nm	86,04 %	≥ 72
min. transmission at 245 nm	96,02 %	≥ 90
min. transmission at 270 nm	99,70 %	≥ 98
max. absorbance at 220 nm	0,181 AU	≤ 0,260
max. absorbance at 230 nm	0,065 AU	≤ 0,143
max. absorbance at 245 nm	0,018 AU	≤ 0,046
max. absorbance at 270 nm	0,001 AU	≤ 0,009

Microfiltered through membranes of pore diameter 0,22 µm.

For laboratory use only.

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.comSara Garcia Maldonado
Laboratory Technician