



Scharlab S.L.

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CERTIFICATE OF ANALYSIS

ET0013_22683602/1

Product Ethanol 96% v/v, Multisolvant® HPLC grade ACS UV-VIS

Batch 22683602

ET0013

Quality release date 06/04/2022

Expiry date 04/2027

Analysis	Batch value	Specifications
Assay (G.C.) (v/v)	95,96 %	95,1 - 96,9
Identity (IR-Spectrum)	passes test	passes test
Density (20°/4°)	0,8040 g/mL	0,804 - 0,807
Appearance	clear	clear
Colour (Hazen)	1	≤ 10
Acidity	0,00006 meq/g	≤ 0,0002
Alkalinity	0,00005 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
Aluminium (Al)	< 0,1 ppm	≤ 0,1
Antimony (Sb)	< 0,02 ppm	≤ 0,02
Arsenic (As)	< 0,02 ppm	≤ 0,02
Barium (Ba)	< 0,01 ppm	≤ 0,01
Beryllium (Be)	< 0,02 ppm	≤ 0,02
Bismuth (Bi)	< 0,02 ppm	≤ 0,02
Boron (B)	< 0,02 ppm	≤ 0,02
Cadmium (Cd)	< 0,01 ppm	≤ 0,01
Calcium (Ca)	< 0,3 ppm	≤ 0,3
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)	< 0,02 ppm	≤ 0,02
Lead (Pb)	< 0,1 ppm	≤ 0,1
Lithium (Li)	< 0,02 ppm	≤ 0,02
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	< 0,02 ppm	≤ 0,02
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)	< 0,01 ppm	≤ 0,01
Zirconium (Zr)	< 0,02 ppm	≤ 0,02

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

Sara Garcia Maldonado
Laboratory Technician

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Formaldehyde	< 0,0005 %	≤ 0,0005
Furfural	passes test	passes test
Fusel oil	passes test	passes test
Acetaldehyde and acetal (G.C.)	< 0,001 %	≤ 0,001
Acetone (G.C.)	< 0,001 %	≤ 0,001
Benzene (G.C.)	< 0,0002 %	≤ 0,0002
Isoamyl alcohol (G.C.)	< 0,05 %	≤ 0,05
Methanol (G.C.)	< 0,01 %	≤ 0,01
Methylethylketone (G.C.)	< 0,002 %	≤ 0,002
2-Propanol (G.C.)	< 0,003 %	≤ 0,003
Aldehydes (as CH ₃ CHO)	< 0,001 %	≤ 0,001
Carbonyl compounds (as CO)	< 0,003 %	≤ 0,003
Higher alcohols (G.C.)	< 0,01 %	≤ 0,01
Substances reducing KMnO ₄	passes test	passes test
Substances darkened by H ₂ SO ₄	passes test	passes test
Residue on evaporation	0,0001 %	≤ 0,0002
Water (v/v) (K.F.)	4,04 %	3,1 - 4,9
Liquid chromatography suitability absorbance	passes test	passes test
min. transmission at 210 nm	42,85 %	≥ 35
min. transmission at 220 nm	63,74 %	≥ 55
min. transmission at 230 nm	79,47 %	≥ 72
min. transmission at 250 nm	95,91 %	≥ 90
min. transmission at 270 nm	99,20 %	≥ 98
max. absorbance at 210 nm	0,368 AU	≤ 0,456
max. absorbance at 220 nm	0,196 AU	≤ 0,260
max. absorbance at 230 nm	0,100 AU	≤ 0,143
max. absorbance at 250 nm	0,018 AU	≤ 0,046
max. absorbance at 270 nm	0,003 AU	≤ 0,009

For laboratory use only

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