

**Scharlab S.L.**

Crtra.Polinya a Sentmenat, Km 8,2

08181 Sentmenat

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✉ helpdesk@scharlab.com

CERTIFICATE OF ANALYSIS

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

Batch 20807302

ET0013

Quality release date 12/05/2020

Expiry date 05/2025

Analysis	Batch value	Specifications
Assay (G.C.) (v/v)	95,92 %	95,1 - 96,9
Identity (IR-Spectrum)	passes test	passes test
Density (20°/4°)	0,8045 g/mL	0,804 - 0,807
Appearance	clear	clear
Colour (Hazen)	2	≤ 10
Acidity	0,00013 meq/g	≤ 0,0002
Alkalinity	< 0,0002 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.comRicard Balladares Abella
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.)	< 0,0010 %	≤ 0,001
Acetone (G.C.)	< 0,001 %	≤ 0,001
Benzene (G.C.)	< 0,0001 %	≤ 0,0002
Isoamyl alcohol (G.C.)	0,0002 %	≤ 0,05
Methanol (G.C.)	0,0001 %	≤ 0,01
Methylethylketone (G.C.)	< 0,001 %	≤ 0,002
2-Propanol (G.C.)	0,0002 %	≤ 0,003
Aldehydes (as CH ₃ CHO)	< 0,001 %	≤ 0,001
Carbonyl compounds (as CO)	< 0,003 %	≤ 0,003
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 %	≤ 0,0002
Water (v/v) (K.F.)	4,07 %	3,1 - 4,9
Liquid chromatography suitability absorbance	passes test	passes test
min. transmission at 210 nm	40,89 %	≥ 35
min. transmission at 220 nm	62,48 %	≥ 55
min. transmission at 230 nm	79,58 %	≥ 72
min. transmission at 250 nm	96,72 %	≥ 90
min. transmission at 270 nm	99,88 %	≥ 98
max. absorbance at 210 nm	0,388 AU	≤ 0,456
max. absorbance at 220 nm	0,204 AU	≤ 0,260
max. absorbance at 230 nm	0,099 AU	≤ 0,143
max. absorbance at 250 nm	0,014 AU	≤ 0,046
max. absorbance at 270 nm	0,001 AU	≤ 0,009

For laboratory use only

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