

**Scharlab S.L.**

Gato Pérez, 33. Pol. Ind. Mas d'en Cisa

08181 Sentmenat

☎ +34937456400

✉ helpdesk@scharlab.com

CERTIFICATE OF ANALYSIS

Product Methanol, Multisolvant® HPLC grade ACS ISO UV-VIS K.F.

Batch 19409107

ME0315

Quality release date 05/12/2018

Expiry date 12/2023

Analysis	Batch value	Specifications
Assay (G.C.)	99,99 %	≥ 99,9
Identity (IR-Spectrum)	passes test	passes test
Density (20°/4°)	0,7913 g/mL	0,790 - 0,792
Appearance	clear	clear
Colour (Hazen)	1	≤ 10
Solubility in water	passes test	passes test
Acidity	0,00013 meq/g	≤ 0,0002
Alkalinity	0,00002 meq/g	≤ 0,0002
Chlorides (Cl)	< 0,00005 %	≤ 0,00005
Sulfates (SO4)	< 0,0001 %	≤ 0,0001
Aluminium (Al)	< 0,00001 %	≤ 0,00001
Arsenic (As)	< 0,000002 %	≤ 0,000002
Barium (Ba)	< 0,000001 %	≤ 0,000001
Beryllium (Be)	< 0,000002 %	≤ 0,000002
Bismuth (Bi)	< 0,000002 %	≤ 0,000002
Boron (B)	< 0,000002 %	≤ 0,000002
Cadmium (Cd)	< 0,000001 %	≤ 0,000001
Calcium (Ca)	< 0,00003 %	≤ 0,00003
Chromium (Cr)	< 0,000002 %	≤ 0,000002
Cobalt (Co)	< 0,000002 %	≤ 0,000002
Copper (Cu)	< 0,000002 %	≤ 0,000002
Gallium (Ga)	< 0,000002 %	≤ 0,000002
Gold (Au)	< 0,000002 %	≤ 0,000002
Indium (In)	< 0,000002 %	≤ 0,000002
Iron (Fe)	< 0,000002 %	≤ 0,000002
Lead (Pb)	< 0,00001 %	≤ 0,00001
Lithium (Li)	< 0,000005 %	≤ 0,000005
Magnesium (Mg)	< 0,00001 %	≤ 0,00001
Manganese (Mn)	< 0,000001 %	≤ 0,000001
Molybdenum (Mo)	< 0,000002 %	≤ 0,000002
Nickel (Ni)	< 0,000002 %	≤ 0,000002
Platinum (Pt)	< 0,000005 %	≤ 0,000005
Silver (Ag)	< 0,000002 %	≤ 0,000002
Thallium (Tl)	< 0,000002 %	≤ 0,000002
Tin (Sn)	< 0,00001 %	≤ 0,00001
Titanium (Ti)	< 0,000002 %	≤ 0,000002
Vanadium (V)	< 0,000002 %	≤ 0,000002
Zinc (Zn)	< 0,000001 %	≤ 0,000001
Zirconium (Zr)	< 0,000002 %	≤ 0,000002
Acetone (G.C.)	0,0002 %	≤ 0,001
Ethanol (G.C.)	0,0002 %	≤ 0,05

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

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Aldehydes and ketones (as C ₂ H ₅ CHO)	< 0,001 %	≤ 0,001
Acetaldehyde (CH ₃ CHO)	< 0,0001 %	≤ 0,001
Formaldehyde	< 0,0001 %	≤ 0,0001
Carbonyl compounds (as CO)	< 0,001 %	≤ 0,001
Substances darkened by H ₂ SO ₄	passes test	passes test
Substances reducing KMnO ₄	passes test	passes test
Residue on evaporation	0,0001 %	≤ 0,0002
Water (K.F.)	0,0077 %	≤ 0,03
Liquid chromatography suitability absorbance	passes test	passes test
UV Spectroscopy in a 1,0 cm cell:		
min. transmission at 207 nm	19,75 %	≥ 10
min. transmission at 220 nm	58,50 %	≥ 50
min. transmission at 232 nm	81,01 %	≥ 80
min. transmission at 242 nm	91,54 %	≥ 90
min. transmission at 260 nm	98,24 %	≥ 98
max. absorbance at 207 nm	0,704 AU	≤ 1,000
max. absorbance at 220 nm	0,233 AU	≤ 0,301
max. absorbance at 232 nm	0,091 AU	≤ 0,097
max. absorbance at 242 nm	0,038 AU	≤ 0,046
max. absorbance at 260 nm	0,008 AU	≤ 0,009

Microfiltered through membranes of pore diameter 0,22 µm