

**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	19432107
ME0315		Quality release date	17/12/2018
		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°)	0,7912 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	0,00003 meq/g	≤ 0,0002	
Chlorides (Cl)	< 0,00005 %	≤ 0,00005	
Sulfates (SO ₄)	< 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.)	< 0,001 %	≤ 0,001	
Ethanol (G.C.)	0,0010 %	≤ 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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Analysis	Batch value	Specifications
Aldehydes and ketones (as C2H5CHO)	< 0,001 %	≤ 0,001
Acetaldehyde (CH3CHO)	< 0,001 %	≤ 0,001
Formaldehyde	< 0,0001 %	≤ 0,0001
Carbonyl compounds (as CO)	< 0,001 %	≤ 0,001
Substances darkened by H2SO4	passes test	passes test
Substances reducing KMnO4	passes test	passes test
Residue on evaporation	0,0001 %	≤ 0,0002
Water (K.F.)	0,0102 %	≤ 0,03
Liquid chromatography suitability absorbance	passes test	passes test
UV Spectroscopy in a 1,0 cm cell:		
min. transmission at 207 nm	41,27 %	≥ 10
min. transmission at 220 nm	81,76 %	≥ 50
min. transmission at 232 nm	93,46 %	≥ 80
min. transmission at 242 nm	97,18 %	≥ 90
min. transmission at 260 nm	99,22 %	≥ 98
max. absorbance at 207 nm	0,384 AU	≤ 1,000
max. absorbance at 220 nm	0,087 AU	≤ 0,301
max. absorbance at 232 nm	0,029 AU	≤ 0,097
max. absorbance at 242 nm	0,012 AU	≤ 0,046
max. absorbance at 260 nm	0,003 AU	≤ 0,009

Microfiltered through membranes of pore diameter 0,22 µm