

**Scharlab S.L.**

Crtra.Polinya a Sentmenat, Km 8,2

08181 Sentmenat

☎ +34937456400

✉ helpdesk@scharlab.com

CERTIFICATE OF ANALYSIS

Product	Metanol, UHPLC-MS	Batch	20340729
ME0334		Quality release date	21/11/2019
		Expiry date	11/2024
Analysis	Batch value	Specifications	
Assay (G.C.)	99,99 %	≥ 99,9	
Identity (IR-Spectrum)	passes test	passes test	
Density (20°/4°)	0,7915 g/mL	0,790 - 0,792	
Acidity	0,00005 meq/g	≤ 0,0002	
Alkalinity	0,00001 meq/g	≤ 0,0002	
Aluminium (Al)	< 0,1 ppm	≤ 0,1	
Barium (Ba)	< 0,02 ppm	≤ 0,02	
Cadmium (Cd)	< 0,05 ppm	≤ 0,05	
Calcium (Ca)	< 0,1 ppm	≤ 0,1	
Chromium (Cr)	< 0,02 ppm	≤ 0,02	
Cobalt (Co)	< 0,02 ppm	≤ 0,02	
Copper (Cu)	< 0,01 ppm	≤ 0,01	
Iron (Fe)	< 0,02 ppm	≤ 0,02	
Lead (Pb)	< 0,02 ppm	≤ 0,02	
Magnesium (Mg)	< 0,02 ppm	≤ 0,02	
Manganese (Mn)	< 0,01 ppm	≤ 0,01	
Nickel (Ni)	< 0,02 ppm	≤ 0,02	
Potassium (K)	< 0,05 ppm	≤ 0,05	
Silver (Ag)	< 0,1 ppm	≤ 0,1	
Sodium (Na)	< 0,1 ppm	≤ 0,1	
Tin (Sn)	< 0,1 ppm	≤ 0,1	
Zinc (Zn)	< 0,1 ppm	≤ 0,1	
Residue on evaporation	0,0001 %	≤ 0,0001	
Water (K.F.)	0,00861 %	≤ 0,02	
Suitability for use in UHPLC-MS	passes test	passes test	
UV Spectroscopy in a 1,0 cm cell:			
min. transmission at 205 nm	21,95 %	≥ 20	
min. transmission at 220 nm	78,82 %	≥ 60	
min. transmission at 240 nm	95,48 %	≥ 90	
min. transmission at 260 nm	99,18 %	≥ 98	
max. absorbance at 205 nm	0,659 AU	≤ 0,699	
max. absorbance at 220 nm	0,103 AU	≤ 0,222	
max. absorbance at 240 nm	0,020 AU	≤ 0,046	
max. absorbance at 260 nm	0,004 AU	≤ 0,009	
Gradient grade (235 nm):			
maximum peak absorbance:	0,0005 AU	≤ 0,001	
Gradient grade (254 nm):			
maximum peak absorbance:	0,0004 AU	≤ 0,0005	
UHPLC-MS test ESI+	< 5 ppb Reserpin	≤ 5	
UHPLC-MS test ESI-	< 20 ppb Digoxin	≤ 20	

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

This certificate modifies and cancels the content of the certificate with name S-19-9414/1

Ricard Balladares Abella
Laboratory Technician



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Microfiltered through membranes of pore diameter 0,1 µm.

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Ricard Balladares Abella
Laboratory Technician

A handwritten signature in black ink, appearing to read "Ricard Balladares Abella".