

Certificate of Analysis

Product: Methanol
Item Number: MALCMS
Grade: LCMS
Lot Number: 220826
Manufacture Date: 08/26/2022
Expiration Date: 08/25/2026
Country of Origin: United States

Tested Property	Specification	Analysis
Assay CH ₃ OH(GC)	≥99.99%	100.0%
Density (20°C)	0.791 - 0.793 g/mL	0.792 g/mL
Solubility with H ₂ O	To pass test	Passes test
Residue on evaporation	≤0.0001 %	0.0001%
Water	≤0.01%	0.008%
Acidity (as H ⁺)	≤0.0002 mmol/g	0.0002 mmol/g
Alkalinity (as OH ⁻)	≤0.0001 mmol/g	Not Detected
Absorbance at 205 nm	≤1.0 Abs Units	0.764 Abs Units
Absorbance at 210 nm	≤0.45 Abs Units	0.365 Abs Units
Absorbance at 220 nm	≤0.20 Abs Units	0.154 Abs Units
Absorbance at 230 nm	≤0.10 Abs Units	0.070 Abs Units
Absorbance at 260 nm	≤0.01 Abs Units	0.005 Abs Units
Gradient Elution Test at 254 nm	≤2 mAU	1.18 mAU
Gradient Elution Test at 235 nm	≤2 mAU	0.48 mAU
Fluorescence Impurity at 254 nm	≤1.0 ppb	Passes Test
Fluorescence Impurity at 365 nm	≤0.5 ppb	Passes Test
LC-MS(ESI+) as reserpine	≤50 ppb	Passes Test
LC-MS(ESI-) as 4-nitrophenol	≤50 ppb	Passes Test
K, Ag, Ba, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sn,	≤5	Passes Test
Al, Ca, Mg, Fe,	≤10	Passes Test

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Na	≤ 100	Passes Test
Assay CH ₃ OH(GC)	$\geq 99.99\%$	100.0%
Density (20°C)	0.791 - 0.793 g/mL	0.792 g/mL
Solubility with H ₂ O	To pass test	Passes test
Residue on evaporation	$\leq 0.0001 \%$	0.0001%
Water	$\leq 0.01\%$	0.008%
Acidity (as H ⁺)	≤ 0.0002 mmol/g	0.0002 mmol/g
Alkalinity (as OH ⁻)	≤ 0.0001 mmol/g	Not Detected
Absorbance at 205 nm	≤ 1.0 Abs Units	0.764 Abs Units
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Fluorescence Impurity at 254 nm	≤ 1.0 ppb	Passes Test
Fluorescence Impurity at 365 nm	≤ 0.5 ppb	Passes Test
LC-MS(ESI+) as reserpine	≤ 50 ppb	Passes Test
LC-MS(ESI-) as 4-nitrophenol	≤ 50 ppb	Passes Test
K, Ag, Ba, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sn,	≤ 5 ppb	Passes Test
Al, Ca, Mg, Fe,	≤ 10 ppb	Passes Test
Na	≤ 100 ppb	Passes Test

Methanol

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