

ANALYSIS CERTIFICATE

CODE: 141091

BATCH: 0000764369

PRODUCT: Methanol (USP-NF, BP, Ph. Eur.) pure, pharma grade

ISSUE DATE: 12/03/2016

RETEST DATE: 02/2022

SPECIFICATIONS	GUARANTEE VALUE	ACTUAL VALUE
Minimum assay (G.C.)	99,5%	99,9%
Identity according to Pharmacopoeias:	passes test	Passes test
Density 20/20	0,791-0,793	0,792
Refractive index n 20/D	1,328-1,330	1,329
Maximum limit of impurities		
ABS 230 nm	0,15 UA	<0,15 UA
ABS 250 nm	0,05 UA	<0,05 UA
ABS 270 nm	0,02 UA	<0,02 UA
ABS 290 nm	0,01 UA	<0,01 UA
Appearance	passes test	Passes test
Acidity (as CH ₃ COOH)	0,003%	<0,003%
Alkalinity	0,0003 %	<0,0003 %
Insoluble matter in H ₂ O	passes test	Passes test
Non-volatile matter	0,001 %	0,0001 %
Reducing substances to KMnO ₄ (as O)	0,0005 %	<0,0005 %
Darkened substances by H ₂ SO ₄	passes test	Passes test
Clarity and colour	passes test	Passes test
Related substances (G.C.)		
Individual impurity	0,1 %	0,1 %
Total impurities	0,3 %	0,3 %
Residual solvents (Ph.Eur/USP)	passes test	Passes test
Disregard limit	0,005 %	<0,005 %
Acetone (G.C.)	0,002%	<0,002%
Acetone and aldehydes (as CH ₃ COCH ₃)	0,003%	<0,003%
Benzene	0,0002%	<0,0002%
Ethanol (G.C.)	0,1%	<0,1%
Water (H ₂ O)	0,1 %	0,02 %
Residual metals ICP: (according to EMEA/CHMP/SWP/4446/2000)		
Class 1A (Pt, Pd)	10 ppm	<10 ppm
Class 1B (Ir, Rh, Ru, Os)	10 ppm	<10 ppm
Class 1C (Mo, Ni, Cr, V)	25 ppm	<25 ppm
Class 2 (Cu, Mn)	250 ppm	<250 ppm
Class 3 (Fe, Zn)	1.300 ppm	<1.300 ppm

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