

ANALYSIS CERTIFICATE

CODE: 141091

BATCH: 0001014412

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

ISSUE DATE: 17/01/2017

RETEST DATE: 01/2023

| 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 | 0,791 |
| Refractive index n 20/D | 1,328-1,330 | 1,3280 |
| 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 % | 0,01 % |
| 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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