



Laboratory chemicals and products-Clinical chemistry and hematology products-Fine & industrial chemicals

Certificate of Analysis

Product No 9017
 Acetonitrile
 'BAKER HPLC ANALYZED'
 Ultra Gradient HPLC Grade
Lot No 0704008004
Date 16-Feb-07

Meets Chromatography Reagent Specifications for testing Ph. Eur. monographs

| Test | Specification | Actual value |
|---|---------------|--------------|
| Assay (by GC) | min. 99.8 % | 100.0 % |
| Appearance | passes test | passes test |
| Distilling Range 80-82°C | min. 95% | passes test |
| Identity (by IR) | passes test | passes test |
| Transmittance 240 nm - 420 nm | min. 98 % | 100 % |
| Water (H ₂ O) | max. 0.01 % | 0.007 % |
| <i>Fluorescence Trace Impurities (as quinine base), ppb:</i> | | |
| Measured at Emission Maximum for Solvent Impurities | max. 1.0 | 0.3 |
| Measured at 450 nm | max. 0.3 | 0.2 |
| <i>Gradient Elution Test(PAH Suitability test)</i> | | |
| <i>Ultraviolet Absorbance (a.u.)</i> | | |
| at 210 nm | max. 0.002 | < 0.002 |
| at 254 nm | max. 0.0005 | < 0.0005 |
| Fluorescence (in ppb, measured as Benzo(a) Pyrene at EX/Em=280nm/Total Emission | max. 0.5 | < 0.5 |
| <i>Limits of Impurities:</i> | | |
| Residue after Evaporation | max. 1 ppm | < 0.5 ppm |
| Titration Acid (meq/g) | max. 0.0008 | 0.00030 |
| Titration Base (meq/g) | max. 0.0006 | 0.00006 |
| <i>Ultraviolet Absorbance (1.00-cm path vs water):</i> | | |
| at 200 nm | max. 0.05 | 0.02 |
| at 220 nm | max. 0.01 | 0.01 |
| at 254-400 nm | max. 0.01 | < 0.01 |
| UV Cut-off, nm | max. 190 | < 190 |
| <i>Physical Data(not specifications):</i> | | |
| Density (g/ml) at 20°C | 0.786 | |
| Refractive Index n ₂₀ /D | 1.344 | |

Filtered through a 0.2 micron filter.

Use Before Date 2009-03

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The contents was checked by ing. M. Keuvelaar QC manager Mallinckrodt Baker B.V.

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