

Certificate of Analysis

Material : 20060.320

Acetonitrile HiPerSolv CHROMANORM for HPLC - GRADIENT
GRADE

Batch : 12Z3492

Expires end of 08/2015

| CHARACTERISTICS | SPECIFICATIONS | MEASURED VALUES |
|--------------------------------|-------------------|-------------------|
| Assay (on anhydrous substance) | Min. 99,90 % | 99,98 % |
| Acidity | Max. 0,0002 meq/g | Max. 0,0002 meq/g |
| Alkalinity | Max. 0,0002 meq/g | Max. 0,0002 meq/g |
| Evaporation residue | Max. 5 ppm | Max. 5 ppm |
| Water | Max. 0,020 % | 0,008 % |
| Transmittance (190 nm) | Min. 30,0 % | 50,2 % |
| Transmittance (195 nm) | Min. 80,0 % | 84,7 % |
| Transmittance (200 nm) | Min. 90,0 % | 91,3 % |
| Transmittance (210 nm) | Min. 94,0 % | 94,3 % |
| Transmittance (220 nm) | Min. 96,0 % | 97,3 % |
| Transmittance (240 nm) | Min. 99,0 % | 99,2 % |
| Gradient grade (210 nm) | Max. 10 mAU | Max. 10 mAU |
| Conforms to BDH 15251 | Passes test | Passes test |

We certify that this batch conforms to the specifications listed above.

BDL : Below detected limit.

Dr. Olaf C. Fehr, Chief Scientist - Europe
VWR International
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