

Certificate of Analysis

| | | | |
|-----------------|--------------|---------------------------|--------------|
| Product | Acetonitrile | Batch No. | : 21 06 0020 |
| Grade | HPLC | Manufacturing date | : 15/06/2021 |
| Code No. | LC1005 | Best before | : 06/2025 |

| Items | Descriptions | Specifications | Test Results |
|-------|-----------------------------|----------------------------|----------------------------|
| 1 | Assay (by GC.) | 99.9% min. | 99.9% |
| 2 | Appearance | Clear and colorless liquid | Clear and colorless liquid |
| 3 | Identity (IR) | Passes test | Passes test |
| 4 | Color (APHA) | 10 max. | < 10 |
| 5 | Water (by Coulometry) | 0.02% max. | 0.01% |
| 6 | Acidity (mEq./g.) | 0.0005 max. | < 0.0005 |
| 7 | Alkalinity (mEq./g.) | 0.0002 max. | < 0.0002 |
| 8 | Residue on Evaporation | 0.0002% max. | < 0.0002% |
| 9 | UV Transmission Levels (%T) | | |
| | 250 nm | 99% min. | 99.9% |
| | 240 nm | 98% min. | 99.8% |
| | 230 nm | 97% min. | 99.2% |
| | 210 nm | 93% min. | 95.5% |
| | 195 nm | 70% min. | 83.2% |
| 10 | Fluorescence (as quinine) | | |
| | at 254 nm | 0.5 ppb max. | < 0.5 ppb |
| | at 365 nm | 0.5 ppb max. | < 0.5 ppb |

Product passed through 0.2 micron final filter.

This is to certify the above batch has been tested and complies with this specification.

Ladaphan

Chemist

Achan

Technical Manager