

## Certificate of Analysis

|                 |         |                           |              |
|-----------------|---------|---------------------------|--------------|
| <b>Product</b>  | Acetone | <b>Batch No.</b>          | : 21 06 0134 |
| <b>Grade</b>    | HPLC    | <b>Manufacturing date</b> | : 14/06/2021 |
| <b>Code No.</b> | LC1003  | <b>Best before</b>        | : 06/2025    |

| Items | Descriptions                     | Specifications             | Test Results               |
|-------|----------------------------------|----------------------------|----------------------------|
| 1     | Assay (by GC.)                   | 99.8% 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)            | 0.2% max.                  | 0.18%                      |
| 6     | Acidity (mEq./g.)                | 0.0002 max.                | < 0.0002                   |
| 7     | Alkalinity (mEq./g.)             | 0.0002 max.                | < 0.0002                   |
| 8     | Residue on Evaporation           | 0.0002% max.               | < 0.0002%                  |
| 9     | Aldehyde (as HCHO)               | 0.002% max.                | < 0.002%                   |
| 10    | Methanol (GC.)                   | 0.05% max.                 | < 0.05%                    |
| 11    | Propan-2-ol (GC.)                | 0.05% max.                 | < 0.05%                    |
| 12    | Solubility in water              | Passes test                | Passes test                |
| 13    | Substances reducing permanganate | Passes test                | Passes test                |
| 14    | UV Transmission Levels (%T)      |                            |                            |
|       | 355 nm                           | 99% min.                   | 99.9%                      |
|       | 350 nm                           | 98% min.                   | 99.4%                      |
|       | 340 nm                           | 85% min.                   | 88.8%                      |
|       | 335 nm                           | 50% min.                   | 63.1%                      |
| 15    | Fluorescence (as quinine)        |                            |                            |
|       | at 365 nm                        | 1 ppb max.                 | < 1 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