

## Certificate of Analysis

|                 |                 |                           |              |
|-----------------|-----------------|---------------------------|--------------|
| <b>Product</b>  | Tetrahydrofuran | <b>Batch No.</b>          | : 21 06 0123 |
| <b>Grade</b>    | HPLC            | <b>Manufacturing date</b> | : 25/06/2021 |
| <b>Code No.</b> | LC1200          | <b>Best before</b>        | : 06/2022    |

| 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. | 0.007%                     |
| 6     | Acidity (mEq./g.)                            | 0.0002                     | max. | < 0.0002                   |
| 7     | Alkalinity (mEq./g.)                         | 0.0002                     | max. | < 0.0002                   |
| 8     | Residue on Evaporation                       | 0.0001%                    | max. | < 0.0001%                  |
| 9     | Peroxide (as H <sub>2</sub> O <sub>2</sub> ) | 0.01%                      | max. | < 0.01%                    |
| 10    | UV Transmission Levels (%T)                  |                            |      |                            |
|       | 280 nm                                       | 99%                        | min. | 99.9%                      |
|       | 250 nm                                       | 80%                        | min. | 97.3%                      |
|       | 240 nm                                       | 70%                        | min. | 94.4%                      |
|       | 230 nm                                       | 35%                        | min. | 78.8%                      |
|       | 218 nm                                       | 30%                        | min. | 39.1%                      |
| 11    | Fluorescence (as quinine)                    |                            |      |                            |
|       | at 254 nm                                    | 1 ppb                      | max. | < 1 ppb                    |
|       | 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