

## Certificate of Analysis

<b>Product</b>	Methanol	<b>Batch No.</b>	: 21 05 0286
<b>Grade</b>	HPLC	<b>Manufacturing date</b>	: 31/05/2021
<b>Code No.</b>	LC1115	<b>Best before</b>	: 05/2025

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)	0.05% max.	0.02%
6	Acidity (mEq./g.)	0.0003 max.	< 0.0003
7	Alkalinity (mEq./g.)	0.0002 max.	< 0.0002
8	Residue on Evaporation	0.0003% max.	< 0.0003%
9	Acetaldehyde (GC.)	0.001% max.	< 0.001%
10	Acetone (GC.)	0.001% max.	< 0.001%
11	Carbonyl Compounds	0.001% max.	< 0.001%
12	Formaldehyde (GC.)	0.001% max.	< 0.001%
13	Solubility in water	Passes test	Passes test
14	Substances reducing permanganate	Passes test	Passes test
15	Substances darkened by sulfuric acid	Passes test	Passes test
16	UV Transmission Levels (%T)		
	250 nm	99% min.	99.9%
	240 nm	98% min.	99.1%
	230 nm	80% min.	96.6%
	220 nm	70% min.	91.2%
	210 nm	60% min.	71.1%
17	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