

Certificate of Analysis

Product	Methanol	Batch No.	: 21 05 0378
Grade	HPLC	Manufacturing date	: 31/05/2021
Code No.	LC1115	Best before	: 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.	0.009%
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.	99.4%
	230 nm	80%	min.	97.4%
	220 nm	70%	min.	92.2%
	210 nm	60%	min.	72.0%
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