

CERTIFICATE OF ANALYSIS

Product: Acetonitrile, Gradient HPLC grade

Order No.: 210.03.02500.01

Batch No/Lot No: 210.03.05-D14.21

Quantity: 2.5 Lit

Date of Production: 14/04/2021

Retest Date: 14/04/2023

Row	Test Item	Specification	Results	Reference
1	Description	Clear, colorless liquid, having a characteristic odor. Is flammable.	Conforms	Merck standard
2	Solubility	Miscible with water.	Conforms	Merck standard
3	Identification A (IR)	According to reference standard spectrum.	Conforms	Merck standard
4	Identification B (GC)	The retention time of the major peak in chromatogram of the assay preparation corresponds to that in the chromatogram of the standard preparation as obtained in the assay.	Conforms	Merck standard
5	Acidity	N.M.T 0.0005 meq/g	0.0003	Merck standard
6	Alkalinity	N.M.T 0.0005 meq/g	0.0001	Merck standard
7	Water	N.M.T 0.05%	0.01	Merck standard
8	Nonvolatile residue	N.M.T 2.0 mg/l	2.0	Merck standard
9	Refractive index (@ 20.0 °C)	About 1.344	1.343	Merck standard
10	Density (@ 20 °C)	About 0.780 g/cm ³	0.78	Merck standard
11	Boiling range (@ 80-82 °C)	≥ 95 %(v/v)	99.0	Merck standard
12	Assay	N.L.T 99.9 %	100.0	Merck standard
13	Transmission	@193 nm: ≥ 60 %	70.0	Merck standard
		@195 nm: ≥ 75 %	85.1	
		@230 nm: ≥ 98 %	99.2	

QC. Manager: Ms. Iravani

Qualified Person: Dr. Mojallali

Status:

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QC Approved

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