

## Certificate of Analysis

Product Name:

**Acetonitrile PurSolv Ultra Plus for LC-MS, tested for UHPLC-MS**

Product No.: PSR49124  
Lot No.: Sampe COA  
Brand: PureSynth  
CAS No.: 75-05-8  
Molecular Formula: C<sub>2</sub>H<sub>3</sub>N  
Molecular Weight: 41.05 g/mol  
Date of Mfg.: NA  
Date of Exp.: NA

Test	Specification	Result
Appearance	Colorless Liquid	Colorless Liquid
Assay (By GC)	≥ 99.9 %	99.99 %
Water (By KF)	NMT 0.01 %	< 0.01 %
Free acid (as CH <sub>3</sub> COOH)	NMT 0.001 %	< 0.001 %
Free alkali (as NH <sub>3</sub> )	NMT 0.0001 %	< 0.0001 %
Aluminium (Al)	NMT 20.0 ppb	< 20.0 ppb
Calcium (Ca)	NMT 50.0 ppb	< 50.0 ppb
Iron (Fe)	NMT 20.0 ppb	< 20.0 ppb
Potassium (K)	NMT 50.0 ppb	< 50.0 ppb
Magnesium (Mg)	NMT 20.0 ppb	< 20.0 ppb
Sodium (Na)	NMT 50.0 ppb	< 50.0 ppb
Lead (Pb)	NMT 20.0 ppb	< 20.0 ppb
Transmittance (@191 nm)	≥ 30.0 %	> 30.0 %
Transmittance (@195 nm)	≥ 85.0 %	> 85.0 %
Transmittance (@200 nm)	≥ 97.0 %	> 97.0 %
Transmittance (@215 nm)	≥ 98.0 %	> 98.0 %
Transmittance from (230 nm)	≥ 99.0 %	> 99.0 %
UHPLC-gradient drift (254 nm)	NMT 3.0 mAU	< 3.0 mAU
UHPLC-gradient peak (254 nm)	NMT 0.6 mAU	< 0.6 mAU
UHPLC-gradient drift (210 nm)	NMT 8.0 mAU	< 8.0 mAU
UHPLC-gradient peak (210 nm)	NMT 2.0 mAU	< 2.0 mAU
Suitability for the UHPLC-MS	≥ 97.0 %	Complying
Fluorescence (chinin) (@254 nm)	NMT 0.5 ppb	0.3 ppb
Fluorescence (chinin) (@365 nm)	NMT 0.5 ppb	0.3 ppb

The Certificate of Analysis (COA) is valid only for the lot specified and within the product's shelf life. Retesting is recommended after the expiry date or if storage conditions are compromised. We guarantee a proper quality within our General Conditions of Sales. The conditions are subject to change without prior notice.  
For queries on this COA, please contact our technical team at [technical@pure-synth.com](mailto:technical@pure-synth.com)

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**Remarks:**

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at [www.pure-synth.com](http://www.pure-synth.com)

Inspect on receipt

**Storage Condition:**

Store at room temperature and keep the container tightly closed

PureSynth Research Chemicals GmbH

*This is electronically-generated copy & is valid without a signature*

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