

## Certified HPLC Solvents



Fisher Chemical CertiFied™ HPLC solvents are guaranteed to have low UV absorbance. They offer the unique benefits of providing actual lot analysis and an absorbance curve on the label.

- The lot analysis provides a detailed specification including assay, water, residue, acidity and numerical absorbance values, which reflect the details reported on the certificate of analysis.
- The absorbance curve provides a graphical representation of the solvents actual absorbance characteristics. This gives assurance of quality and consistency by allowing the opportunity to compare actual data with specification data.

## HPLC for fluorescence detection



Use tested and guaranteed for both fluorescence and UV detection, these solvents are specifically developed for methods such as vitamin analysis.

- This range of HPLC solvents offers low fluorescence over a broad range of excitation and emission wavelengths.

## HPLC for electrochemical detection



HPLC-EC is recognised as a highly sensitive and selective method of analysis for electro-active substances such as vitamins and catecholamines.

- These solvents and reagents are purified to remove electrochemically active impurities and then use-tested by HPLC-EC. This ensures a low background current every time.

## Advanced HPLC solvents and buffers



This new and innovative range of high purity solvents and buffers has been devised for HPLC method development and offers the following outstanding features:

- Developed and quality controlled to guarantee minimal baseline drift under gradient conditions
- The available solvents include Acetonitrile, Methanol and Water, supported by a range of pre-mixed HPLC buffers
- Absorbance of the largest eluted peak is guaranteed at 0.1 mA for solvents and 0.5 mA for buffers
- Customers can now have full confidence that even the smallest eluted peaks on the absorbance curve are generated by their sample, not the solvent or buffer

### Fisher Chemical products are available from:

Fisher Bioblock Scientific • BP 567 • B-7500 Tournai I • Tel: +32 (0)56 260 260 • Fax: +32 (0)56 260 270  
Acros Organics • Geel West Zone 2 • Janssen Pharmaceuticaan 3a • B-2440 Geel • Tel: +32 (0)14 57 52 11 • Fax: +32 (0)14 59 34 34  
Chemie Brunshwig AG • Belchenstrasse 12 • CH-4009 Basel • Tel: +41 (0)61 308 91 16 • Fax: +41 (0)61 308 91 19  
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or contact your local dealer for more information.



## HPLC LC-MS Solvents

Accurate and consistent HPLC results using the highest quality chemicals



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Choice, Quality and Value from the World Leader in Science

The Fisher Chemical specification guarantee:

“We guarantee that the product you receive will meet or exceed the specification detailed in our current catalogue”

## Why choose Fisher Chemical HPLC LC-MS Solvents?

Our new range of solvents has been developed to meet the stringent needs of LC-MS technology.

Fisher Chemical LC-MS solvents have:

- **High quality, reproducible performance**
  - Increase the sensitivity of LC-MS applications
  - True analyte peaks (< 50 ppb metal ions) for better analyte identification
  - Smooth, flat baselines from low diode array detector background
  - High ionization efficiency from low impurity levels
- **Quality characteristics**
  - Low residue
    - Filtered at 0.2 microns
  - Low absorbance levels under gradient conditions
  - Low levels of trace metals, including alkaline earth metals
  - Low acidity and alkalinity level
- **Convenience**
  - Formulated and tested specifically for LC-MS applications
  - Accuracy of data from ease of mass spectra interpretation
  - LC-MS and LC-UV compatible based on low UV absorbances
- **Quality Control**
  - Minimal free acid/alkali levels
  - Tested for non-volatile matter and other elements
  - LC-MS use test performed
- **Cost Savings**
  - Longer column life due to minimal impurities in the mobile phase
  - Clog free operation of LC-MS system due to the absence of particles and foreign matter

## LC-MS at Fisher Chemical

As LC-MS users know, impurities in non-specified solvents used in analysis can lead to problems with identification and generate false information. To eliminate these inconsistencies, the Fisher Chemical LC-MS solvents are manufactured and tested to the highest standards to give trouble free analysis.

LC-MS is fast becoming the analytical tool to provide information on molecular mass and structural information, compound identification and quantity. The technique is applicable to wide range of compounds and also a wide range of LC techniques. It is highly selective and easy to use. With the right reagents, your results will be the best they can be.

## Fisher Chemical LC-MS Solvent Specification

	Acetonitrile LC-MS	Methanol LC-MS	Water LC-MS
Product number	A/0638	M/4062	W/0112
Assay (GC)	> 99.9	> 99.9 %	-
Acidity	< 0.0002 meq/g	< 0.0002 meq/g	-
Alkalinity	< 0.0001 meq/g	< 0.00008 meq/g	-
Residue on evaporation	< 2 ppm	< 5 ppm	< 1 ppm
Water (Karl Fischer)	< 0.01%	< 0.02 %	
Transmittance at 200 nm	< 0.03 AU	-	< 0.005 AU
Transmittance at 230 nm	< 0.005 AU	< 0.05 AU	< 0.005 AU
Transmittance at 260 nm	-	< 0.005 AU	-
HPLC gradient (254 nm)	< 0.2 m AU	< 0.5 m AU	< 0.2 m AU
Silver (Ag)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Aluminum (Al)	< 0.05 ppm	< 0.2 ppm	< 0.05 ppm
Barium (Ba)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Calcium (Ca)	< 0.01 ppm	< 0.05 ppm	< 0.05 ppm
Cadmium (Cd)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Cobalt (Co)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Chromium (Cr)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Copper (Cu)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Iron (Fe)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Potassium (K)	< 0.01 ppm	< 0.01 ppm	< 0.1 ppm
Magnesium (Mg)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Manganese (Mn)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Sodium (Na)	< 0.05 ppm	< 0.5 ppm	< 0.01 ppm
Nickel (Ni)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Lead (Pb)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Tin (Sn)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
Zinc (Zn)	< 0.01 ppm	< 0.01 ppm	< 0.01 ppm
LC-MS suitability	Pass	Pass	Pass

## LC-MS Solvents Fisher Chemical code and packaging

Code	Designation	Packaging
A/0638/15	Acetonitrile HPLC for LC-MS	1L, glass bottle
A/0638/17	Acetonitrile HPLC for LC-MS	2.5 L, glass bottle
M/4062/15	Methanol HPLC for LC-MS	1L, glass bottle
M/4062/17	Methanol HPLC for LC-MS	2.5 L, glass bottle
W/0112/15	Water HPLC for LC-MS	1L, glass bottle
W/0112/17	Water HPLC for LC-MS	2.5 L, glass bottle

QUALITY RELIABILITY SUSTAINABILITY AND EXPERTISE