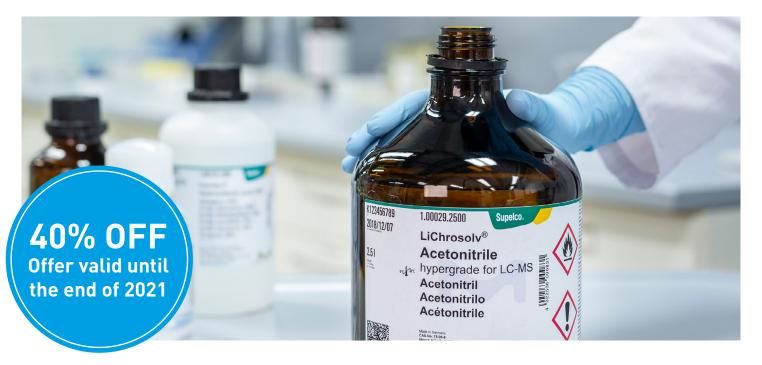


In celebration of our appointment as an official distributor for the Merck – Supelco[®] Range of Analytical Products



Product	Description	Code	Pack	List Price	Offer Price
	Hypergrade for LC-MS LiChrosolv	SIG1000291000	1L	€ 166.00	€ 99.60
Acetonitrile		SIG1000292500	2.5L	€ 351.00	€ 210.60
		SIG1000294000	4L	€ 337.00	€ 202.20
		SIG1000299185	185L	€ 7,270.00	€ 4,362.00
Appendix it a 10/ Appendix and (1.4.)	Hypergrade for LC-MS LiChrosolv	SIG1590042500	2.5L	€ 176.00	€ 105.60
Acetonitrile + 0.1% Acetic acid (v/v)		SIG1590044000	4L	€ 269.00	€ 161.40
Acetonitrile + 0.1% Formic acid (v/v)	Hypergrade for LC-MS LiChrosolv	SIG1590021000	1L	€ 84.30	€ 50.58
		SIG1590022500	2.5L	€ 174.00	€ 104.40
		SIG1590024000	4L	€ 266.00	€ 159.60
Acetonitrile + 0.1% Trifluoroacetic acid (v/v)	Hypergrade for LC-MS LiChrosolv	SIG1590142500	2.5L	€ 175.00	€ 105.00
		SIG1590144000	4L	€ 244.00	€ 146.40
Acetonitrile with 0.05% Trifluoroacetic acid (v/v)	LiChrosolv	SIG4806722500	2.5L	€ 402.00	€ 241.20
Dimethylformamide	For liquid chromatography LiChrosolv	SIG5438971000	1L	€ 117.00	€ 70.20
Dimethylformamide		SIG5438972500	2.5L	€ 222.00	€ 133.20
Ethyl Acetate	Hypergrade for LC-MS LiChrosolv	SIG1036491000	1L	€ 42.70	€ 25.62
		SIG1036492500	2.5L	€ 89.10	€ 53.46
Heptane	Hypergrade for LC-MS LiChrosolv	SIG1036541000	1L	€ 103.00	€ 61.80
		SIG1036542500	2.5L	€ 257.00	€ 154.20

00497

Lisburn: 028 9262 1100 Dublin: 01 4069464



(@) sales@analab.co.uk or sales@analab.ie

www.analab.co.uk or www.analab.ie

Brought to you by





Product	Description	Code	Pack	List Price	Offer Price
Hexane	Hypergrade for LC-MS LiChrosolv	SIG1037011000	1L	€ 98.90	€ 59.34
		SIG1037012500	2.5L	€ 191.00	€ 114.60
	Hypergrade for LC-MS LiChrosolv	SIG1060351000	1L	€ 48.20	€ 28.92
Methanol		SIG1060352500	2.5L	€ 99.50	€ 59.70
Methanot		SIG1060354000	4L	€ 122.00	€ 73.20
		SIG1060359185	185L	€ 5,020.00	€ 3,012.00
1-Methyl-2-pyrrolidone	For liquid chromatography LiChrosolv	SIG5438991000	1L	€ 122.00	€ 73.20
		SIG5438992500	2.5L	€ 242.00	€ 145.20
	Hypergrade for LC-MS LiChrosolv	SIG1027811000	1L	€ 43.40	€ 26.04
2-Propanol		SIG1027812500	2.5L	€ 87.60	€ 52.56
		SIG1027814000	4L	€ 125.00	€ 75.00
	Hypergrade for LC-MS LiChrosolv	SIG1153331000	1L	€ 23.30	€ 13.98
Water		SIG1153332500	2.5L	€ 48.70	€ 29.22
		SIG1153334000	4L	€ 87.40	€ 52.44
		SIG1153339185	185L	€ 1,840.00	€ 1,104.00
Water + 0.1% Acetic acid (v/v)	Hypergrade for LC-MS LiChrosolv	SIG1590072500	2.5L	€ 56.80	€ 34.08
Water + 0.1% Formic acid (v/v)	Hypergrade for LC-MS LiChrosolv	SIG1590132500	2.5L	€ 55.90	€ 33.54
		SIG1590134000	4L	€ 146.00	€ 87.60
Water + 0.1% Trifluoroacetic acid (v/v)	Hypergrade for LC-MS LiChrosolv	SIG4801122500	2.5L	€ 82.70	€ 49.62
		SIG4801124000	4L	€ 136.00	€ 81.60

Product	Description	Code	Pack	List Price	Offer Price
Acetonitrile	For UHPLC-MS LiChrosolv	1037251002	1L	€ 384.00	€ 230.40
Acetoniciae		1037252002	2L	€ 596.00	€ 357.60
Methanol	For UHPLC-MS LiChrosolv	1037261002	1L	€ 139.00	€ 83.40
		1037262002	2L	€ 223.00	€ 133.80
Water	For UHPLC-MS LiChrosolv	1037281002	1L	€ 96.20	€ 57.72
		1037282002	2L	€ 143.00	€ 85.80









LC-MS: Raising the bar on purity

Liquid chromatography - mass spectrometry (LC-MS) is fast becoming a routine fixture in today's well-equipped analytical laboratory. Along with the increased use of LC-MS comes instrumental, chemical and database methods aimed at increasing the sensitivity, specificity and speed of analysis of this invaluable technique. New ion sources, high-resolution LC systems and rapid mass spectrometers with enhanced ion optics and detectors have lowered the limits of detection, but have raised the bar on the purity expectations of reagents used for sample preparation, mobile phases, and as additives. Some notable examples of how the purity and composition of the chemicals used in LC-MS that affect the analysis include:

 Polymers—including biopolymers such as proteins and DNA-form adducts with inorganic salts, leading to complex mass spectra and a broad distribution of multiply-charged sodium, potassium and chloride adducts.

- Salts can suppress ionization in ESI sources, even with small molecules.
- Reagents, solvents and devices used in sample preparation along with additives always present a risk of contamination.

Some particular compound classes that can be problematic are alkali ions, plasticizers and surfactants, as they are widespread and interfere strongly with LC-MS by forming adducts and causing higher background noise as well as leading to signal suppression. Because of the integral part that chemistry plays in a successful LC-MS analysis, we have developed and introduced a broad portfolio solvents, additives and reagents which are designed specifically to meet the requirements of high purity and consistency. This brochure contains a compilation of articles on LC-MS additives and the advantages of high purity solvents for both small and large molecule analysis.

Lisburn: 028 9262 1100 🥒 Dublin: 01 4069464



(@) sales@analab.co.uk or sales@analab.ie www.analab.co.uk or www.analab.ie

Brought to you by





Solvents and Blends for LC-MS

Superior resolution and sensitivity

Why use LC-MS grade solvents?

- No ghost peaks
- Full reproducibility
- Extends the lifetime of your columns
- Optimized and tested for LC-MS applications
- Minimal background ion suppression
- Global availability

Why Pre-Blended?

- Reduces the risk of contamination
- Saves time
- No cleaning of glassware or filtration
- Less exposure to hazardous chemicals

As LC-MS is a highly sensitive analytical technique, impurities in your solvents can have an impact on the accuracy and reproducibility of your analytical results. Have confidence in your analysis by using our high purity solvents and blends designed to meet the demanding requirements of LC-MS applications, ensuring baseline stability, lowest impurity levels and, in addition, high UV transmittance.

Developed specifically for LC-MS, we have introduced a range of high purity solvents pre-blended with acetic acid, formic acid or trifluoroacetic acid, to provide convenient ready-to-use mobile phases for accurate LC-MS.

This complete product portfolio sets the standard for accurate, reproducible and high-resolution analytical separations for superior performance and sensitivity.







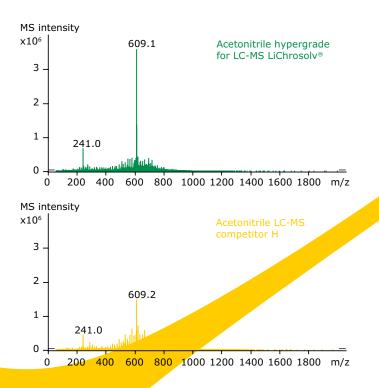
(@) sales@analab.co.uk or sales@analab.ie www.analab.co.uk or www.analab.ie

Brought to you by



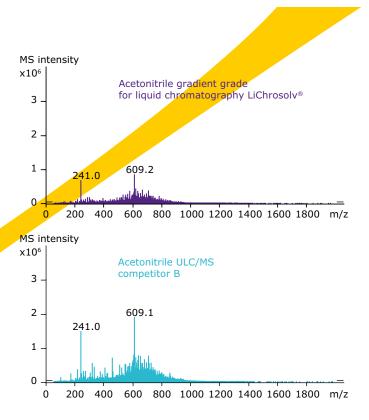


Why your choice of solvent matters



MS conditions				
System	Bruker Esquire 3000+ ion trap MS			
Detection	Pos. ESI-MS, m/z range 50 - 2000			
Flow rate	0.2 mL/min via syringe pump			
Temperature	25 °C			
Sample	Reserpine (m/z 609.1), internal standard (m/z 241.0)			

Mass spectra displaying the results of reserpine comparing different acetonitrile qualities from Merck and two alternative competitors.



The mass spectra of these four different acetonitrile grades clearly shows the variation in the intensity of the reserpine signal ([M+H]+ = 609), as well as the extent of the background signals. The differences in the intensity of the reserpine signal are caused by ion suppression. This effect occurs due to interfering trace contaminants that can be present in acetonitrile, which can be avoided using the correct high grade solvent for this purpose.

00497

Lisburn: 028 9262 1100 Dublin: 01 4069464



sales@analab.co.uk or sales@analab.ie www.analab.co.uk or www.analab.ie

Brought to you by





High-purity UHPLC-MS LiChrosolv® solvents for rapid and reliable results.

Discover how our new range of advanced UHPLC-MS LiChosolv[®] solvents raise the standard for low baseline noise and clean mass spectra.

The new range of advanced UHPLC-MS solvents have been developed to exceed all expectations, providing rapid and reliable results in both ESI/APCI positive and negative ionization modes.

Thanks to their lowest level of background noise and ion suppression, this quality ensures the optimum ionization efficiency to enable the highest sensitivity. With these features, use of these solvents can also help to extend column lifetime.

To ensure that you have confidence in your results, we specify the lowest possible limit of polyethylene glycol (PEG) impurities in all our UHPLC-MS solvents.

Our advanced UHPLC-MS LiChrosolv® solvents have been designed to meet the highest requirements of UHPLC-MS in research and quality control, including proteomics and metabolomics as well as environmental, clinical, food or industrial testing applications.





Supelco® Analytical Products

00497



(@) sales@analab.co.uk or sales@analab.ie www.analab.co.uk or www.analab.ie

Brought to you by

