

Improved Optima LC/MS Solvents

- **Even fewer impurities:** Innovative LC-UV gradient test ensures that UV-absorbing impurities will not interfere with your analysis
- **Even lower particulate levels:** ≤ 0.1 micron filtration protects columns and components from clogging
- Formulated for **UHPLC-UV applications**

Improved performance

Fisher Chemical™ Optima™ LC/MS solvents; now with an unprecedented LC-UV gradient suitability specification that was developed by using advanced UHPLC technology coupled with PDA detection optics. As a result, each lot of Optima LC/MS solvent is screened for UV-absorbing contaminants at every wavelength in the 200-400nm range to afford smooth baselines, reduced interferences, and increased confidence in your analyses.

In addition, Optima LC/MS solvents are formulated for UHPLC-UV, which requires the mobile phase to be free of contaminating particulates and UV-absorbing impurities. Our high purity solvents are submicron filtered ($0.1\mu\text{m}$) to minimize troublesome particles that may interfere with UHPLC system performance and provide an ideal solution to prepare cleaner, particle-free, mobile phase blends for UHPLC.

Highlights

- Optimized for UHPLC-UV. Novel gradient elution test in the full UV range (200-400nm) ensures **extremely low levels of UV-absorbing impurities**.
- Sub-micron filtration of Optima LC/MS solvents prolongs the life and effectiveness of UHPLC components such as inlet filters, check valves and seals, injectors and columns by **reducing instrument downtime and maintenance cost**.
- Filtration feature provides **very low particle content for maximum purity**.

Grade:

Optima LC/MS for LC/MS applications
Suitable for UHPLC-UV

New specifications:

HPLC/UHPLC-UV gradient suitability test
Peak height with PDA (200-400nm): 2mAU max
Filter size: $0.1\mu\text{m}$ (see below)



Acetonitrile		
Product code	Pack size	Filter size
A955-500	500mL	$0.1\mu\text{m}$ filter
A955-1	1L	$0.1\mu\text{m}$ filter
A955-212	2.5L	$0.1\mu\text{m}$ filter
A955-4	4L	$0.1\mu\text{m}$ filter

GHS : Flam. Liq.2, Acute Tox.4, Eye Irrit.2

Methanol		
Product code	Pack size	Filter size
A456-500	500mL	$0.1\mu\text{m}$ filter
A456-1	1L	$0.1\mu\text{m}$ filter
A456-212	2.5L	$0.1\mu\text{m}$ filter
A456-4	4L	$0.1\mu\text{m}$ filter

GHS : Flam. Liq.2, Acute Tox.3, STOT SE 1

Water		
Product code	Pack size	Filter size
W6-500	500mL	$0.03\mu\text{m}$ filter
W6-1	1L	$0.03\mu\text{m}$ filter
W6-212	2.5L	$0.03\mu\text{m}$ filter
W6-4	4L	$0.03\mu\text{m}$ filter

Select the suitable Fisher Chemical solvent grade for your application

Chromatography application	Equipment and detector type	Fisher Chemical solvent grade
High HPLC-MS	LC and UHPLC coupled with mass detector	Optima LC/MS grade
HPLC-MS	LC coupled with mass detector	LC/MS grade
UHPLC	UHPLC coupled with UV detector	UHPLC gradient grade
High HPLC gradient analysis	LC gradient grade coupled with UV detector	HPLC advanced grade
HPLC gradient analysis	LC gradient grade coupled with UV detector	HPLC gradient grade
HPLC with UV detection	LC coupled with UV detector	HPLC grade

Selection guide for Fisher Chemical solvents

Solvent	Pack size	Packaging	Solvent grade and product code					
			HPLC grade	HPLC gradient grade	Advanced HPLC grade	U-HPLC gradient grade	LC/MS	Optima LC/MS
Acetonitrile <i>GHS: Flam. Liq.2, Acute Tox.4, Eye Irrit.2</i>	500mL	Glass bottle	-	-	-	-	-	A955-500
	1L	Glass bottle	A/0626/15	A/0627/15	-	-	A/0638/15	A955-1
	1L	Plastic coated glass bottle	-	-	A/0632/PB15	A/0650/PB15	-	-
	2.5L	Glass bottle	A/0626/17	A/0627/17	-	-	A/0638/17	A955-212
	2.5L	Plastic coated glass bottle	A/0626/PB17	A/0627/PB17	A/0632/PB17	A/0650/PB17	-	-
	4L	Glass bottle	-	-	-	-	-	A955-4
	5L	Glass bottle	A/0626/21	A/0627/21	-	-	-	-
Methanol <i>GHS: Flam. Liq.2, Acute Tox.3, STOT SE 1</i>	500mL	Glass bottle	-	-	-	-	-	A456-500
	1L	Glass bottle	M/4056/15	M/4058/15	-	-	M/4062/15	A456-1
	1L	Plastic coated glass bottle	-	-	M/4060/PB15	M/4070/PB15	-	-
	2.5L	Glass bottle	M/4056/17	M/4058/17	-	-	M/4062/17	A456-212
	2.5L	Plastic coated glass bottle	M/4056/PB17	M/4058/PB17	M/4060/PB17	M/4070/PB17	-	-
	4L	Glass bottle	-	-	-	-	-	A456-4
Water	500mL	Glass bottle	-	-	-	-	-	W6-500 *
	1L	Glass bottle	W/0106/15	W/0106/15	-	-	W/0112/15	W6-1*
	1L	Plastic coated glass bottle	-	-	W/0110/PB15	W/0120/PB15	-	-
	2.5L	Glass bottle	W/0106/17	W/0106/17	-	-	W/0112/17	W6-212*
	2.5L	Plastic coated glass bottle	W/0106/PB17	W/0106/PB17	W/0110/PB17	W/0120/PB17	-	-
	4L	Glass bottle	-	-	-	-	-	W6-4*
	5L	Glass bottle	-	-	-	-	-	-
Filtered to:			0.2µm	0.2µm	0.2µm	0.1µm	0.2µm	0.1µm * 0.03µm

To place an order, contact your local Fisher Scientific office.



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