LC-MS solvents, additives, mixes and associated products

01. LC-MS MADE A BIT EASIER WITH VWR!
02. SOLVENTS
03. ADDITIVES
04. MIXES
05. SAFETY CAPS
06. LC-MS CERTIFIED FILTERS
07. VIAL KITS

VWR COLLECTION

HIPERSOLV CHROMANORM® LC-MS AND ULTRA LC-MS SOLVENTS FOR LC-MS AND ULC-MS APPLICATIONS

VWR Chemicals highest quality products specifically manufactured to meet the needs of LC-MS users.

Designed to ensure minimal metal adduct formation through rigorous testing for the presence of alkaline impurities, combining high performance and a stable baseline of HPLC solvents.

- Low ionic background
- Low alkaline metal content of max. 100 ppb with many metals at less 20 ppb for ULTRA LC-MS grades
- ULTRA grades suitable for ULC-MS/UPLC/UHPLC
- High UV transmission
- Very low evaporation residue and water content
- Filtered at 0,2 µm and bottled under nitrogen
- Fitted with caps with PTFE liners to prevent contamination
- Packed in standard glass bottles with DIN 45 closures

Product specifications	Acetonitrile	Acetonitrile Ultra	Ethyle acetate	Methanol	Methanol Ultra	Methanol Ultra plus	n-Hexane 99%	n-Heptane 99%	2-Propanol	THF	Water
Cat. No. 1 l	**83640.290**	**83642.290**	**-**	**83638.290**	**85800.290**	**-**	**85799.290**	**84899.290**	**84881.290**	**84882.290**	**83645.290**
Cat. No. 2,5 l	**83640.320**	**83642.320**	**85481.320**	**83638.320**	**85800.320**	**85855.320**	**85799.320**	**84899.320**	**84881.320**	**84882.320**	**83645.320**
Cat. No. 4 l	**83640.400**	**83642.400**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**83645.400**
Assay (on anhydrous substance)	Min. 99,9%	Min. 99,95%	Min. 99,9%	Min. 99,9%	Min. 99,9%	Min. 99.98%	Min 99%	Min 99%	Min. 99,9%	Min. 99,9%	-
Acidity	Max. 0,0001%	Max. 0,0001%	Max. 0,003%	Max 0,0002%	Max. 0,0002%	Max. 0.002 %	Max. 0.0002 %	Max. 0.0002 %	Max. 0,0002%	Max 0,0005%	-
Alkalinity	Max. 0,0002%	Max. 0,0002%	Max. 0,0005%	Max 0,0002%	Max. 0,0002%	Max. 0.0001 %	Max. 0.0002 %	Max. 0.0002 %	Max. 0,0002%	Max 0,0005%	-
Evaporation residue	Max. 2 ppm	Max. 1ppm	Max. 5 mg/l	Max. 3 ppm	Max. 1ppm	Max. 1 ppm	Max. 1 ppm	Max. 1 ppm	Max 1ppm	Max.1ppm	Max. 1ppm
Water	Max. 200 ppm	Max. 10 ppm	Max. 500 ppm	Max 300ppm	Max. 200 ppm	Max. 300 ppm	Max. 50 ppm	Max. 50 ppm	Max. 50 ppm	Max. 50 ppm	-
Peroxides	-	-	-	-	-	-	-	-	-	Max. 1 mg/l	-
Carbon organic total (COT)	-	-	-	-	-	-	-	-	-	-	Max. 30 ppb
Specific conductivity (25 °C) at filling	-	-	-	-	-	-	-	-	-	-	Max. 1 µs/CM
Colony count (Ph. Eur.)	-	-	-	-	-	-	-	-	-	-	Max. 100 CFY/ml
Colouration Max.	Max. 10 APHA	Max. 5 APHA	Max. 10 APHA	-	Max. 10 APHA	-	-	-	-	-	-
Density 20/4	-	0,781 - 0,784	-	-	-	-	-	-	-	-	-
Density 20/20	-	0,782 - 0,785	-	-	0,791 - 0,793	-	-	-	-	-	-
Refractive index n 20/D	-	1,343 - 1,345	-	-	-	-	-	-	-	-	-
Gradient (210 nm)	Max. 1 mAU	Max. 2 mAU	-	-	Max. 3 mAU	Max 4mAU	-	-	-	-	Max. 5 mAU
Gradient grade at 230 nm	-	-	-	Max 2 mAU	Max. 2 mAU	Max 2mAU	-	-	-	-	Max. 2 mAU
Gradient (254 nm)	Max. 1 mAU	Max. 1 mAU	-	Max 2 mAU	Max. 1 mAU		-	-	-	-	Max. 1 mAU
Fluorescence as quinine at 254/450 nm	Max. 1 ppb	Max. 1 ppb	-	Max 1 ppb	Max. 1 ppb	Max. 0.5 ppb	-	-	-	-	Max. 1 ppb
Fluorescence as quinine at 365 nm	-	Max. 0,5 ppb	-	Max 1 ppb	Max. 0,5 ppb	Max. 0.3 ppb	-	-	-	-	Max. 0.5ppb
Transmission at 190 nm	Min. 30%	-	-	-	-	-	-	-	-	-	-
Transmission at 193 nm	-	Min. 60%	-	-	-	-	-	-	-	-	-
Transmission at 195 nm	Min. 80%	Min. 90%	-	-	-	-	Min. 10%	Min. 10%	-	-	-
Transmission at 200 nm	Min. 95%	Min. 98%	-	-	-	-	-	-	-	-	-

Full specifications and certificates of analysis are readily available at vwr.com

Handy hint

Trifluoroacetic acid is usually used in mobile phases with proteins or peptides to improve the form and resolution of peaks plus control the pH.

For some applications MS detection may not give the best results.

Product specifications	Acetonitrile	Acetonitrile Ultra	Ethyle acetate	Methanol	Methanol Ultra	Methanol Ultra plus	n-Hexane 99%	n-Heptane 99%	2-Propanol	THF	Water
Cat. No. 1 l	**83640.290**	**83642.290**	**-**	**83638.290**	**85800.290**	**-**	**85799.290**	**84899.290**	**84881.290**	**84882.290**	**83645.290**
Cat. No. 2,5 l	**83640.320**	**83642.320**	**85481.320**	**83638.320**	**85800.320**	**85855.320**	**85799.320**	**84899.320**	**84881.320**	**84882.320**	**83645.320**
Cat. No. 4 l	**83640.400**	**83642.400**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**83645.400**
Transmission at 205 nm	-	-	-	Min. 10%	-	-	Min. 50%	Min. 50%	Min. 10%	-	-
Transmission at 210 nm	Min. 96%	Min. 98%	-	Min. 40%	Min. 45%	Min. 40%	-	-	Min. 50%	-	-
Transmission at 215 nm	-	Min. 99%	-	-	-	-	-	-	-	Min. 10%	-
Transmission at 220 nm	Min. 98%	Min. 99%	-	Min. 60%	Min. 65%	Min. 65%	Min. 80%	Min. 80%	-	-	-
Transmission at 225 nm	-	-	-	-	-	-	-	-	Min. 80%	-	-
Transmission at 230 nm	Min. 99%	Min. 99%	-	Min. 80%	Min. 85%	Min. 80%	-	-	-	-	-
Transmission at 235 nm	-	-	-	-	Min. 90%	-	Min. 95%	Min. 95%	-	Min. 50%	-
Transmission at 240 nm	Min 99%	-	-	Min. 90%	Min. 95%	-	-	-	Min. 95%	-	-
Transmission at 250 nm	-	-	-	-	Min. 95%	-	-	-	-	-	-
Transmission at 255 nm	-	-	-	-	-	-	Min. 99%	Min. 99%	Min. 99%	-	-
Transmission from 260 nm	-	-	Min. 75%	-	Min. 98%	Min. 98%	-	-	-	-	-
Transmission from 275 nm	-	-	Min. 98%	-	-	-	-	-	-	Min. 95%	-
Transmission from 280 - 400 nm	-	-	-	-	Min. 98%	-	-	-	-	Min. 99%	-
Aluminium (Al)	Max. 50 ppb	Max. 20 ppb	Max. 50 ppb	Max. 200 ppb	-	Max. 20 ppb	-	-	-	-	Max. 50 ppb
Calcium (Ca)	Max. 50 ppb	Max. 20 ppb	Max. 20 ppb	-	Max. 200 ppb	Max. 50 ppb	Max. 0.2 ppm	Max. 0.2 ppm	Max. 200 ppb	Max. 200 ppb	Max. 50 ppb
Iron (Fe)	Max. 50 ppb	Max. 20 ppb	Max. 50 ppb	-	Max. 50 ppb	Max. 20 ppb			Max. 200 ppb	Max. 200 ppb	Max. 50 ppb
Potassium (K)	Max. 50 ppb	Max. 20 ppb	Max. 50 ppb	Max. 100 ppb	Max. 50 ppb	Max. 50 ppb	Max. 0.2 ppm	Max. 0.2 ppm	Max. 200 ppb	Max. 200 ppb	Max. 50 ppb
Magnesium (Mg)	Max. 10 ppb	Max. 20 ppb	Max. 50 ppb	Max. 100 ppb	Max. 50 ppb	Max. 20 ppb	Max. 0.2 ppm	Max. 0.2 ppm	Max. 200 ppb	Max. 200 ppb	Max. 50 ppb
Sodium (Na) (at filling)	Max. 100 ppb	Max. 20 ppb	Max. 50 ppb	Max. 200 ppb	Max. 200 ppb	Max. 50 ppb	Max. 0,5 ppm	Max. 0.5 ppm	Max. 500 ppb	Max. 500 ppb	Max. 100 ppb
UHPLC/MS/ESI (as reserpine)	Max. 2 ppb	Max. 2 ppb	-	-	Max. 50 ppb	Max. 6 ppb	-	-	-	-	Max. 2 ppb
MS-ESI (as Nitrophenol)	Max. 20 ppb	Max. 20 ppb	-	-	-	-	-	-	-	-	Max. 20 ppb
MS-APCI (as Nitrophenol)	Max. 20 ppb	Max. 20 ppb	-	-	-	-	-	-	-	-	Max. 20 ppb

Full specifications and certificates of analysis are readily available at vwr.com

HIPERSOLV CHROMANORM® LC-MS GRADE ADDITIVES FOR HPLC

Additives are selective chemicals that are commonly added to the mobile phase, or introduced post-column, prior to the interface in order to influence analyte ionisation. The objective is usually to improve the signal quality, but they can also be used to suppress unwanted signals, or selectively enhance the signal of specific compounds in a mixture.

Additives are useful because many chromatography separations benefit, in terms of retention and/or peak shape, under acidic conditions since any silanol activity is suppressed. In addition, most MS measurements are done in positive ion mode, which is accomplished by the addition of a proton to form the molecular ion. The low molecular weight organic acids additives exhibit the necessary acidity and volatility to provide an excess of cations for this purpose.

Neutral volatile salts such as ammonium acetate or ammonium formate can influence the separation and ionisation of analytes like acids. They are useful for LC-MS separations in neutral conditions, when, for example, analytes are sensitive to acids or don't present optimal resolution at low pH.

Additives from VWR Chemicals are of a very high quality and available in a selection of pack sizes in ampoules (10x1 ml), bottles 10ml and 100 ml (g), 500 ml (g) or 1 l.

Product specifications	Acetic acid 99%	Ammonium acetate	Ammonium formate	Formic acid	Triethylamine	Trifluoroacetic acid
Cat. No. 10 ml	-	-	-	**85048.010**	-	**85049.010**
Cat. No. Kit (5x10 ml)	-	-	-	**85048.051**	-	**85049.051**
Cat. No. Kit (10x1 ml)	-	-	-	**85048.001**	-	**85049.001**
Cat. No. 100 ml or 100 g	**84874.180**	**84885.180**	**84884.180**	**84865.180**	**84883.180**	**84868.180**
Cat. No. 500 ml or 500 g	**84874.260**	**84885.260**	**84884.260**	**84865.260**	**84883.260**	**84868.260**
Cat. No. 1 l or 1 kg	**84874.290**	-	-	**84865.290**	-	**84868.290**
Assay (on anhydrous substance)	Min. 99,8%	Min. 99%	Min. 99%	Min. 99%	Min. 99,8%	Min. 99,9%
Evaporation residue	Max. 0,0001%	Max. 0,01%	Max. 0,005%	Max. 0,0001%	Max. 0,0001%	Max. 0,0001%
Water	Max. 0,1%	Max. 1%	Max. 2%	-	Max. 0,02%	Max. 0,005%
Calcium	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	-	Max. 0,2 ppm
Potassium	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	-	Max. 0,2 ppm
Magnesium	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	-	Max. 0,2 ppm
Sodium	Max. 0,5 ppm	Max. 0,5 ppm	Max. 0,5 ppm	Max. 0,5 ppm	-	Max. 0,5 ppm
Chloride	-	Max. 5 ppm	Max. 5 ppm	-	-	-
Sulphate	-	Max. 10 ppm	Max. 50 ppm	-	-	-
Nitrate	-	Max. 10 ppm	-	-	-	-
Transmittance 205 nm	-	-	-	-	-	Min. 10%
Transmittance 210 nm	-	Min. 10%	-	-	-	-
Transmittance 215 nm	-	-	Min. 10%	-	-	-
Transmittance 220 nm	-	Min. 50%	-	-	-	Min. 50%
Transmittance 225 nm	-	-	Min. 50%	Min. 20%	-	-
Transmittance 230 nm	-	Min. 80%	Min. 80%	-	Min. 10%	Min. 80%
Transmittance 235 nm	-	Min. 95%	-	Min. 50%	-	-
Transmittance 240 nm	-	-	Min. 95%	Min. 80%	Min. 50%	-
Transmittance 245 nm	-	Min. 99%	Min. 99%	-	Min. 80%	-
Transmittance 250 nm	-	-	-	Min. 95%	Min. 95%	Min. 95%
Transmittance 255 nm	Min. 10%	-	Min. 99%	-	Min. 99%	Min. 99%
Transmittance 260 nm	Min. 50%	-	-	Min. 99%	-	-
Transmittance 270 nm	Min. 80%	-	-	-	-	-
Transmittance 280 nm	Min. 95%	-	-	-	-	-
Transmittance 300 nm	Min. 99%	-	-	-	-	-

HIPERSOLV CHROMANORM® LC-MS GRADE MIXES FOR HPLC

Our pre-blended solutions of the most commonly used LC-MS mobile phases are prepared with precision and very high quality components to minimise baseline noise and analysis artefacts. Such precisely blended solvents eliminate time-consuming mobile phase preparation and eliminate lost sample preparation and instrument downtime caused by impure mobile phases. A special formulation ensures that no precipitation or decomposition of the additive occurs under normal labs conditions.

- Time saving
- Accurate composition
- Minimised baseline and artifacts
- High quality assurance

Product specifications	Acetonitrile with 0,1% acetic acid	Methanol with 0.1% Acetic acid	Water with, 0,1% acetic acid	Acetonitrile with 0,1% formic acid	Methanol with 0.1% formic acid	Water with 0,1% formic acid	Acetonitrile with 0,1% TFA	Methanol with 0,1% TFA	Water with 0,1% TFA	Wash solution ACN/Methanol/ 2-Propanol/ Water (25:25:25:25)	Wash solution 2-Propanol/ Water (50:50)
Cat. No. 1 l	**84872.290**	**84895.290**	**84873.290**	**84866.290**	**84896.290**	**84867.290**	**84869.290**	**84870.290**	**84871.290**	**84897.290**	**84898.290**
Cat. No. 2,5 l	**84872.320**	**84895.320**	**84873.320**	**84866.320**	**84896.320**	**84867.320**	**84869.320**	**84870.320**	**84871.320**	**84897.320**	**84898.320**
Nominal concentration	0,095 to 0,105%	0.095 to 0.105 %	0,095 to 0,105%	0,095 to 0,105%	0.095 to 0.105 %	0,095 to 0,105%	0,095 to 0,105%	0,095 to 0,105%	0,095 to 0,105%	-	-
Evaporation residue	Max. 0,0001%	Max. 0.0001 %	Max. 0,0001%	Max. 0,0001%	Max. 0.0001 %	Max. 0,0001%	Max. 0,0001%	Max. 0,0001%	Max. 0,0001%	Max. 0.0005 %	Max. 0.0005 %
Water Max.	Max. 0,005%	Max. 0.02 %	-	Max. 0,005%	Max. 0.02 %	-	Max. 0,005%	Max. 0,005%	-	-	-
Calcium	Max. 0,2 ppm	Max. 0.2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0.2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0.2 ppm	Max. 0.2 ppm
Potassium	Max. 0,2 ppm	Max. 0.2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0.2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0.2 ppm	Max. 0.2 ppm
Magnesium	Max. 0,2 ppm	Max. 0.2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0.2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0,2 ppm	Max. 0.2 ppm	Max. 0.2 ppm
Sodium	Max. 0,5 ppm	Max. 0.5 ppm	Max. 0,5 ppm	Max. 0,5 ppm	Max. 0.5 ppm	Max. 0,5 ppm	Max. 0,5 ppm	Max. 0,5 ppm	Max. 0,5 ppm	Max. 0.5 ppm	Max. 0.5 ppm
Transmittance 195 nm	Min. 20%	-	-	-	-	-	Min. 20%	-	-	-	-
Transmittance 200 nm	-	-	-	-	-	-	Min. 50%	-	-	-	-
Transmittance 205 nm	-	-	Min. 20%	-	-	-	-	-	-	Min. 10 %	Min. 10 %
Transmittance 210 nm	-	-	-	-	-	-	-	-	Min. 20%	-	-
Transmittance 215 nm	-	-	-	-	-	-	-	-	Min. 50%	Min 50%	-
Transmittance 220 nm	-	-	Min. 50%	-	-	Min. 20%	-	Min. 20%	-	-	-
Transmittance 225 nm	Min. 50%	Min 20%	-	-	Min 20%	-	-	-	Min. 80%	Min 80%	Min 80%
Transmittance 230 nm	-	-	-	Min. 20%	-	Min. 50%	-	-	-	-	-
Transmittance 235 nm	Min. 80%	-	Min. 80%	-	-	Min. 80%	-	Min. 50%	Min. 95%	-	-
Transmittance 240 nm	-	Min. 50 %	Min. 95%	Min. 50%	Min. 50 %	-	Min. 80%	-	-	-	-
Transmittance 245 nm	Min. 95%	-	-	-	-	Min. 95%	-	Min. 80%	Min. 99%	-	-
Transmittance 250 nm	-	Min. 80 %	Min. 99%	-	Min. 80 %	-	-	-	-	Min. 95 %	
Transmittance 255 nm	-	-	-	Min. 80%	-	Min. 99%	Min. 95%	Min. 95%	-	-	Min. 95 %
Transmittance 260 nm	-	Min. 95 %	-	Min. 95%	Min. 95 %	-	Min. 99%	Min. 99%	-	-	-
Transmittance 270 nm	-	Min. 99 %	-	Min. 99%	Min. 99 %	-	-	-	-	Min. 99 %	Min. 99 %
Transmittance 280 nm	Min. 99%	-	-	-	-	-	-	-	-	-	-
Transmittance 295 nm	-	-	-	-	-	-	-	-	-	-	-
Suitable for LC-MS	Passes test	Passes test	Passes test	Passes test	Passes test	Passes test	Passes test	Passes test	Passes test	-	-

Safe solvent handling

SAFETY CAPS ENSURE MAXIMUM SAFETY FOR LABORATORY WORKERS AND THE ENVIRONMENT.

The use of volatile solvents in HPLC-MS bring a number of health, safety and accuracy problems that can be alleviated by the use of Safety Caps on solvent bottles. Potentially as much as 10% of the solvent volume escapes into the atmosphere over a 28 day period from an uncapped bottle. Safety Caps ensure that solvent supply is carefully maintained but prevents the contamination of the laboratory with evaporated solvent. When looking at mixes, differential evaporation rates between the solvents in the mixes can cause the characteristics of the mobile phase to change affecting the continuity of the analytical results.

- Recommended for HPLC systems
- Chemically resistant against aggressive organic solvents (PTFE and PP)
- Air valve and filter valve should be changed every six months for maximum safety

SAFETY CAPS

Extract the solvent safely from a reservoir without being exposed to hazardous gases and solvent vapours.

Safety Cap, 3,2 mm OD tubes	Cat. No.
1-port	590-0036
2-port	590-0037
3-port	590-0038

SAFETY CAPS WITH SHUT-OFF FUNCTION

The shut-off on the Safety Caps can be closed to keep capillaries and inlet filters in the solvent during HPLC pump repairs so that the frits are not in contact with the air. The pump can then be quickly and easily flushed during purging after repair. The Safety Cap with shut-off also prevents air in the tube during solvent changes ensuring ongoing analysis continues without a problem.

Safety Cap, shut-off valve, 3,2 mm OD tubes	Cat. No.
1-port	590-1502
2-port	590-1514
3-port	590-1515

LC-MS CERTIFIED ACRODISC® SYRINGE FILTER – PALL LABORATORY

LC-MS certified – Minimise interference in your LC-MS results with the Acrodisc® MS syringe filter. The first LC-MS certified filter with extremely low levels of extractables. Each box is supplied with a certificate containing Total Ion Current (TIC) chromatograms detailing all detected peaks relative to an Internal Standard.

Low ion suppression/enhancement – Reduce the need for re-testing. The Acrodisc® MS syringe filters will not contribute extractables that will interfere with the ionisation process resulting in more reliable and accurate results.

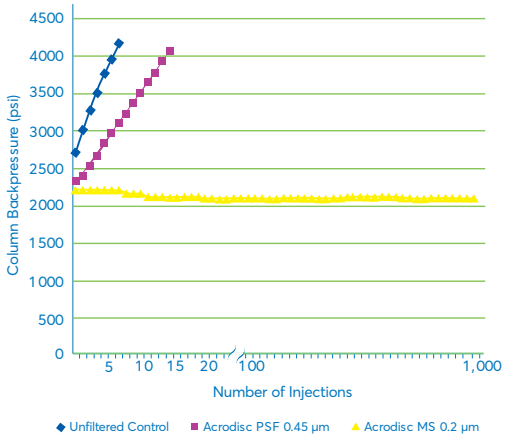
Protective packaging design – Save money and prevent downtime due to accidental contamination. Acrodisc® MS syringe filters are packed into separate tubes to protect them from external sources of extractables. While one tube is in use, the others are kept sealed.

Excellent chemical resistance – Use this universal filter for all your LC-MS samples. The WWPTFE (water wettable polytetrafluoroethylene) membrane can be used with both organic and aqueous solvents. When coupled with the HDPE housing, the membrane offers excellent chemical resistance.

Low protein binding – Get accurate and confident quantitative results. There is minimal protein adsorption with the Acrodisc® MS syringe filters.

Particulate retention – Using Acrodisc® MS syringe filters will protect your columns and instrument from particulate build-up, making your columns last longer and your LC-MS perform more consistently.

0,2 µm WWPTFE membrane, Ø (mm)	Effective filtration area (cm2)	Typical sample volume (ml)	Pk	Cat. No.
13	1	≤10	60	514-0627
25	3,9	≤150	50	514-0287



Effect of filtration on UHPLC column lifetime.

LC-MS AND GC-MS CERTIFIED VIAL KITS

1,5 ml LC-MS and GC-MS certified vial kit are delivered completely shrink wrapped to ensure purity. Vials are 11,6x32 mm with wide opening, label, filling lines and over-wind barrier and Ultra High Performance seal: 9 mm, PP, short thread cap, blue, centre hole. 35° shore A, 1,0 mm.

- Glass surface has very low adsorption properties for all types of polar compounds
- Closures contain a very soft ultra-low bleed (Ultra High Performance) silicone septum with PTFE layer, optimised for ultra-trace analysis
- Each lot of the vial/closure combination has been tested by LC-MS and GC-MS for traces of contamination
- A batch-specific test certificate with MS-chromatograms is available on request

Vial	Cat. No.
Clear glass	548-1990
Amber glass	548-1991

For more vials or high throughput HPLC well plates

Please contact your local VWR sales office or visit https://vwr.com/chromatography

CLICK HERE FOR ALL YOUR Chromatography Solutions

There's also the VWR Collection catalogue containing all our VWR branded products for chromatographers. VWR branded items offer fabulous, reliable performance with great value prices.

Setting science in motion to create a better world

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