

New Products for LC/MS Applications

- FA and TFA Mobile Phase Blends, OPTIMA LC/MS Grade
- Solvents: Acetonitrile, Methanol, 2-Propanol (IPA) and Water, OPTIMA LC/MS Grade
- Reagents Formic Acid and Trifluoroacetic Acid, OPTIMA LC/MS Grade



FA and TFA Mobile Phase Blends, OPTIMA® LC/MS Grade

OPTIMA LC/MS solvents have set the standard of excellence for consistent, reproducible performance in the mobile phase of LC/MS. Now these same high purity solvents are pre-blended with modifiers such as formic acid (FA) or trifluoroacetic acid (TFA) to provide ready-to-use mobile phase for LC/MS and LC/UV applications.

OPTIMA LC/MS solvent blends meet the stringent purity requirements of LC/MS by providing a consistent concentration of FA or TFA, a very low mass baseline (noise level), exceptionally low metal ion content, and very low LC/UV background.

OPTIMA LC/MS pre-blended solvents are manufactured in facilities with an ISO 9001:2008 certified quality system to ensure optimum quality and product uniformity.

KEY FEATURES

- Extensive functional testing to ensure
 - Low mass spectrometry background noise (LC/MS)
 - Minimal metal impurities
 - Lowest impurity background using diode array detection (LC/UV)
- Lot-to-lot consistency
- OPTIMA LC/MS mobile phase extends LC/MS column life due to low impurity levels and low residue value
- Very effective in solubilizing hydrophobic polypeptides
- Only supplier to claim absence of proteases in aqueous blends

ADVANTAGES

- Ready-to-use
- Avoids the possibility of contamination that can occur with in-house blended solvents
- Eliminates the need to clean glassware or measure corrosive acids
- Eliminates batch-to-batch variation
- Reduces overhead costs associated with preparing blends
- Reduces many of the safety risks associated with storing, blending, and disposing of hazardous solvents and acids
- Avoids human error during preparation of blends

APPLICATIONS

- Proteomics
- Pharmaceutical Research
- Drug Discovery
- Biomedical Research

For more information, including a white paper titled 'Optimizing Mobile Phase Solvent Purity for LCMS', go to www.FisherLCMS.com



OPTIMA LC/MS AQUEOUS BLENDS

Cat.No.	Product Description	Pack size	Box qty
LS118-500	0.1% FA in Water, OPTIMA LC/MS	500 mL	6 x 500 mL
LS118-1	0.1% FA in Water, OPTIMA LC/MS	1 L	6 x 1 L
LS118-212	0.1% FA in Water, OPTIMA LC/MS	2.5 L	4 x 2.5 L
LS118-4	0.1% FA in Water, OPTIMA LC/MS	4 L	4 x 4 L
LS119-500	0.1% TFA in Water, OPTIMA LC/MS	500 mL	6 x 500 mL
LS119-1	0.1% TFA in Water, OPTIMA LC/MS	1 L	6 x 1 L
LS119-212	0.1% TFA in Water, OPTIMA LC/MS	2.5 L	4 x 2.5 L
LS119-4	0.1% TFA in Water, OPTIMA LC/MS	4 L	4 x 4 L

OPTIMA LC/MS ORGANIC BLENDS

Cat.No.	Product Description	Pack size	Box qty
LS120-500	0.1% FA in Acetonitrile, OPTIMA LC/MS	500 mL	6 x 500 mL
LS120-1	0.1% FA in Acetonitrile, OPTIMA LC/MS	1 L	6 x 1 L
LS120-212	0.1% FA in Acetonitrile, OPTIMA LC/MS	2.5 L	4 x 2.5 L
LS120-4	0.1% FA in Acetonitrile, OPTIMA LC/MS	4 L	4 x 4 L
LS121-500	0.1% TFA in Acetonitrile, OPTIMA LC/MS	500 mL	6 x 500 mL
LS121-1	0.1% TFA in Acetonitrile, OPTIMA LC/MS	1 L	6 x 1 L
LS121-212	0.1% TFA in Acetonitrile, OPTIMA LC/MS	2.5 L	4 x 2.5 L
LS121-4	0.1% TFA in Acetonitrile, OPTIMA LC/MS	4 L	4 x 4 L

FA and TFA Mobile Phase Blends, OPTIMA LC/MS Grade



OPTIMA LC/MS Aqueous Blends

PRODUCT SPECIFICATIONS

LS118

0.1% FA IN WATER

OPTIMA LC/MS	
Product Description	OPTIMA LC/MS Water with 0.1% (v/v) Formic Acid

Cat.No. and Pack Size:

LS118-500, 500 mL
LS118-1, 1 L
LS118-212, 2.5 L
LS118-4, 4 L

Assay % (V/V)	0.095 to 0.105%
Color (APHA), Max	10

Optical Abs, wavelength, nm	Au, Max
254	0.01
230	0.55
220	0.85
210	1.25

LC/MS Gradient Suitability	Pass test
Residue After Evaporation (max)	1 ppm
Protease	Not Detected

Ionic Impurities	ppb, Max
Aluminum (Al)	20 ppb
Calcium (Ca)	50 ppb
Copper (Cu)	10 ppb
Iron (Fe)	10 ppb
Lead (Pb)	10 ppb
Magnesium (Mg)	10 ppb
Manganese (Mn)	10 ppb
Nickel (Ni)	10 ppb
Potassium (K)	20 ppb
Silver (Ag)	10 ppb
Sodium (Na)	50 ppb
Zinc (Zn)	20 ppb

LS119

0.1% TFA IN WATER

OPTIMA LC/MS	
Product Description	OPTIMA LC/MS Water with 0.1% (v/v) Trifluoroacetic Acid

Cat.No. and Pack Size:

LS119-500, 500 mL
LS119-1, 1 L
LS119-212, 2.5 L
LS119-4, 4 L

Assay % (V/V)	0.095 to 0.105%
Color (APHA), Max	10

Optical Abs, wavelength, nm	Au, Max
254	0.003
230	0.06
220	0.18
210	0.55

LC/MS Gradient Suitability	Pass test
Residue After Evaporation (max)	1 ppm
Protease	Not Detected

Ionic Impurities	ppb, Max
Aluminum (Al)	20 ppb
Calcium (Ca)	50 ppb
Copper (Cu)	10 ppb
Iron (Fe)	10 ppb
Lead (Pb)	10 ppb
Magnesium (Mg)	10 ppb
Manganese (Mn)	10 ppb
Nickel (Ni)	10 ppb
Potassium (K)	20 ppb
Silver (Ag)	10 ppb
Sodium (Na)	50 ppb
Zinc (Zn)	20 ppb

OPTIMA LC/MS Organic Blends

PRODUCT SPECIFICATIONS

LS120

0.1% FA IN ACETONITRILE

OPTIMA LC/MS	
Product Description	OPTIMA LC/MS Acetonitrile with 0.1% (v/v) Formic Acid

Cat.No. and Pack Size:

LS120-500, 500 mL
LS120-1, 1 L
LS120-212, 2.5 L
LS120-4, 4 L

Assay % (V/V)	0.095 to 0.105%
Color (APHA), Max	10

Optical Abs, wavelength, nm	Au, Max
254	0.03
230	0.75
220	1.25
210	1.3

LC/MS Gradient Suitability	Pass test
Residue After Evaporation (max)	1 ppm
Water (max)	0.01%

Ionic Impurities	ppb, Max
Aluminum (Al)	25 ppb
Calcium (Ca)	50 ppb
Copper (Cu)	10 ppb
Iron (Fe)	10 ppb
Lead (Pb)	10 ppb
Magnesium (Mg)	10 ppb
Manganese (Mn)	10 ppb
Nickel (Ni)	10 ppb
Potassium (K)	20 ppb
Silver (Ag)	10 ppb
Sodium (Na)	50 ppb
Zinc (Zn)	20 ppb

LS121

0.1% TFA IN ACETONITRILE

OPTIMA LC/MS	
Product Description	OPTIMA LC/MS Acetonitrile with 0.1% (v/v) Trifluoroacetic Acid

Cat.No. and Pack Size:

LS121-500, 500 mL
LS121-1, 1 L
LS121-212, 2.5 L
LS121-4, 4 L

Assay % (V/V)	0.095 to 0.105%
Color (APHA), Max	10

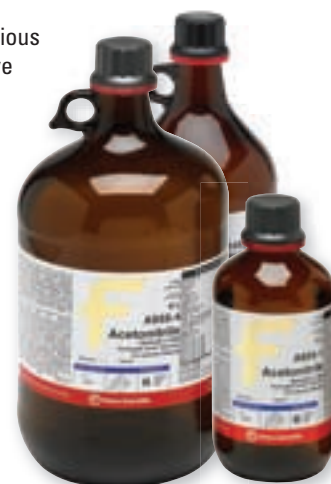
Optical Abs, wavelength, nm	Au, Max
254	0.03
230	0.4
220	0.55
210	0.6

LC/MS Gradient Suitability	Pass test
Residue After Evaporation (max)	1 ppm
Water (max)	0.01%

Ionic Impurities	ppb, Max
Aluminum (Al)	25 ppb
Calcium (Ca)	50 ppb
Copper (Cu)	10 ppb
Iron (Fe)	10 ppb
Lead (Pb)	10 ppb
Magnesium (Mg)	10 ppb
Manganese (Mn)	10 ppb
Nickel (Ni)	10 ppb
Potassium (K)	20 ppb
Silver (Ag)	10 ppb
Sodium (Na)	50 ppb
Zinc (Zn)	20 ppb

Acetonitrile, Methanol, 2-Propanol (IPA) and Water, OPTIMA LC/MS Grade

The joining of liquid chromatography (LC) with mass spectrometry (MS) has become an indispensable tool for various fields of research. The value of LC/MS derives from its ability to combine separation chemistry with selective mass ion detection. As instrumentation advances lead to ever-lower analyte detection limits, it is crucial for the chromatographer to consider the level of purity when selecting appropriate solvents for use in the LC/MS mobile phase. The Fisher Chemical product line offers superior high-purity solvents designed to meet the required purity level of advanced LC/MS systems.



OPTIMA LC/MS Acetonitrile A955

Assay (by GC), min	99.9%
Optical Abs, wavelength, nm	Au, Max
280	0.005
254	0.005
230	0.01
225	0.015
220	0.015
215	0.025
210	0.03
205	0.04
200	0.05
195	0.15
190	1.00
LC/UV Gradient Suitability, nm	Single max peak (Au)
254	0.0005
210	0.002
LC/MS at Positive Mode Max	50 ppb Reserpine
LC/MS at Negative Mode Max	50 ppb Aldicarb
Water (KF) %	0.01
Residue after Evaporation, ppm Max	0.8
Trace Ionic Impurities	ppb, Max
Aluminum (Al)	25
Barium (Ba)	5
Cadmium (Cd)	5
Calcium (Ca)	25
Chromium (Cr)	5
Cobalt (Co)	5
Copper (Cu)	5
Iron (Fe)	5
Lead (Pb)	5
Manganese (Mn)	5
Magnesium (Mg)	10
Nickel (Ni)	5
Potassium (K)	10
Silver (Ag)	5
Sodium (Na)	50
Tin (Sn)	5
Zinc (Zn)	10
Titrate Acid, mEq/g	0.008
Titrate Base, mEq/g	0.0006

OPTIMA LC/MS Methanol A456

Assay (by GC), min	99.9%
Optical Abs, wavelength, nm	Au, Max
280	0.005
260	0.005
254	0.01
230	0.1
220	0.2
214	0.4
210	0.5
LC/UV Gradient Suitability, nm	Single max peak (Au)
254	0.001
220	0.005
LC/MS at Positive Mode Max	50 ppb Reserpine
LC/MS at Negative Mode Max	50 ppb Aldicarb
Water (KF) %	0.02
Residue after Evaporation, ppm, Max	1
Trace Ionic Impurities	ppb, Max
Aluminum (Al)	10
Barium (Ba)	10
Cadmium (Cd)	10
Calcium (Ca)	20
Chromium (Cr)	10
Cobalt (Co)	10
Copper (Cu)	10
Iron (Fe)	10
Lead (Pb)	10
Magnesium (Mg)	10
Manganese (Mn)	10
Nickel (Ni)	10
Potassium (K)	10
Silver (Ag)	10
Sodium (Na)	50
Tin (Sn)	10
Zinc (Zn)	10
Titrate Acid, mEq/g	0.0003
Titrate Base, mEq/g	0.0002

OPTIMA LC/MS Water W6

Optical Abs, wavelength, nm	Au, Max
280	0.005
260	0.005
254	0.005
240	0.01
230	0.01
220	0.01
210	0.01
LC/UV Gradient Suitability, nm	Single max peak (Au)
254	0.0005
210	0.005
Protease	Not Detected
LC/MS at Positive Mode Max	50 ppb Reserpine
LC/MS at Negative Mode Max	50 ppb Aldicarb
Residue after Evaporation, ppm, Max	1
Trace Ionic Impurities	ppb, Max
Aluminum (Al)	10
Barium (Ba)	10
Cadmium (Cd)	10
Calcium (Ca)	20
Chromium (Cr)	10
Cobalt (Co)	10
Copper (Cu)	10
Iron (Fe)	10
Lead (Pb)	10
Magnesium (Mg)	10
Manganese (Mn)	10
Nickel (Ni)	10
Potassium (K)	10
Silver (Ag)	10
Sodium (Na)	20
Tin (Sn)	10
Zinc (Zn)	10
Total Halogens (as chloride)	Not Detected

OPTIMA LC/MS 2-Propanol A461

Assay	99.9%
Color (APHA), Max	5
Optical Abs, wavelength, nm	Au, Max
254	0.005
230	0.05
220	0.1
210	0.4
LCMS Suitability	Pass Test
Water (KF) %	0.05
Residue after Evaporation, ppm, Max	1
Titrate Acid or Base meq/g	0.0001
Trace Ionic Impurities	ppb, Max
Aluminum (Al)	10
Calcium (Ca)	10
Copper (Cu)	5
Iron (Fe)	5
Lead (Pb)	5
Magnesium (Mg)	5
Manganese (Mn)	5
Nickel (Ni)	5
Potassium (K)	10
Silver (Ag)	5
Sodium (Na)	50
Zinc (Zn)	10

Cross-References to Competitor Products

Acetonitrile				
Cat.No.	500 mL (New Pack Size)	1 L	2.5 L	4 L
Fisher Chemical	A955-500	A955-1	A955-212	A955-4
EMD	NA	AX0156-6	NA	AX0156-1
Merck	NA	1000291000	1000292500	NA
JT Baker EU	NA	98531000	NA	NA
JT Baker US	NA	9829-2	NA	9829-3
Sigma Aldrich (Fluka)	NA	34967-1L	34967-2.5L	34967-4X4L
BioSolve	12041	12041	NA	NA
Methanol				
Cat.No.	500 mL (New Pack Size)	1 L	2.5 L	4 L
Fisher Chemical	A456-500	A456-1	A456-212	A456-4
EMD	NA	MX0486-6	NA	MX0496-6
Merck	NA	1060351000	1060352500	NA
JT Baker	NA	98631000 9830-2	NA	NA 9830-3
Sigma Aldrich (Fluka)	NA	34966-1L	34966-2.5L	34966-4X4L
BioSolve	136841	136841	NA	NA

2-Propanol				
Cat.No.	500 mL (New Pack Size)	1 L	2.5 L	4 L
Fisher Chemical	A461-500	A461-1	A461-212	A461-4
EMD	NA	NA	NA	NA
Merck	NA	NA	NA	NA
JT Baker EU	NA	98301000	NA	NA
JT Baker US	NA	9627-2	NA	9627-3
Sigma Aldrich (Fluka)	NA	34965-1L	34965-2.5L	NA
BioSolve	162641	162641	162641	NA
Water				
Cat.No.	500 mL (New Pack Size)	1 L	2.5 L	4 L
Fisher Chemical	W6-500	W6-1	W6-212	W6-4
EMD	NA	WX0001-6	NA	WX0001-1
Merck	NA	NA	NA	NA
JT Baker	NA	98231000 9831-2	NA	NA 9831-3
Sigma Aldrich (Fluka)	NA	39253-1L	NA	39253-4X4L
BioSolve	NA	232141	232141	NA

FA and TFA Reagents, OPTIMA LC/MS Grade

PACKAGING INNOVATIONS

- Safety first - packaged in HDPE bottle to avoid possible breakage of glass bottle due to pressure buildup from carbon monoxide which is a natural decomposition product of formic acid
- Proprietary surface treatment applied to HDPE bottle to create a barrier between bottle and formic acid thus preventing contamination by plasticizers
- LC/MS functional testing on each lot of A117-50 (50 mL bottle) to confirm minimal plasticizer contamination

RECOMMENDED STORAGE

- Store at +4°C



KEY FEATURES

- Also available in convenient 0.5 mL, 1 mL and 2 mL ampules for easy dilutions
- Ampules are prescored for easy opening - no need to file the ampule
- Minimal metal impurities
- Low mass spectrometry background noise
- Lowest impurity background using diode array detection (LC-UV)
- Extended column life due to low impurity levels using OPTIMA LC/MS mobile phase prepared with A116 Trifluoroacetic Acid and A117 Formic Acid

APPLICATIONS

- Drug discovery
- Proteomics
- Biomedical research
- Pharmaceutical research
- Forensics research

Formic Acid, OPTIMA LC/MS Grade

Fisher Chemical OPTIMA LC/MS Grade Formic Acid is an ultrapure reagent used as an additive for the formulation of solvent blends for the mobile phase in LC/MS applications. Formic acid is often added to the LC/MS mobile phase due to its ability to reduce MS signal suppression and thus enhance the signal detection limit.

For preparing mobile phase blends, A117-50 Formic Acid can be used with OPTIMA LC/MS Solvents such as A955 Acetonitrile, W6 Water, and A456 Methanol.



Trifluoroacetic Acid, OPTIMA LC/MS Grade

Fisher Chemical OPTIMA LC/MS Grade Trifluoroacetic Acid is an ultrapure reagent used as an additive for the formulation of solvent blends for the mobile phase in LC/MS applications.

Trifluoroacetic Acid is often added to the mobile phase to enhance chromatographic separations. When reversed-phase chromatography is applied to protein and peptide analysis, TFA is frequently used as an ion-pairing reagent in mobile phases. Although TFA is known to suppress MS ionization, use of a low concentration of TFA can enhance retention and improve peak shape of a product during the analytical separations. For preparing mobile phase blends, A116-50 Trifluoroacetic Acid can be used with OPTIMA LC/MS Solvents such as A955 Acetonitrile, W6 Water, and A456 Methanol.

PRODUCT SPECIFICATIONS

Cat.No.	A117-50
Pack Size	50 mL
Description	Clear, colorless, fuming liquid
Identification	Pass Test
Assay	99.5% min
Color (APHA), max	10

Optical Absorbance (0.1% aqueous), wavelength, Max	
254 nm	0.01 Au
230 nm	0.55 Au
220 nm	0.85 Au
210 nm	1.25 Au

LCMS Suitability (at 0.1% aqueous)	Pass Test
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Residue after evaporation (at 0.1% aqueous)	1 ppm max
Chloride, max	5 ppm
Sulfite (SO ₄), max	50 ppm
Sulfite (SO ₃), max	20 ppm

Trace Ionic Impurities (at 0.1% aqueous) (ppb, Max)	
Aluminium (Al)	20 ppb
Calcium (Ca)	50 ppb
Copper (Cu)	10 ppb
Iron (Fe)	10 ppb
Lead (Pb)	10 ppb
Magnesium (Mg)	10 ppb
Manganese (Mn)	10 ppb
Nickel (Ni)	10 ppb
Potassium (K)	20 ppb
Silver (Ag)	10 ppb
Sodium (Na)	50 ppb
Zinc (Zn)	20 ppb

PRODUCT SPECIFICATIONS

Cat.No.	A116-50
Pack Size	50 mL
Description	Clear, colorless, fuming liquid
Identification	Pass Test
Color (APHA), max	10
Assay	99.5% min

Optical Absorbance (as is), wavelength, Max	
300 nm	0.03 Au
275 nm	0.06 Au

Optical Absorbance (0.1% aqueous), wavelength, Max	
254 nm	0.003 Au
230 nm	0.06 Au
220 nm	0.18 Au
210 nm	0.55 Au

LCMS Suitability (at 0.1% aqueous)	Pass Test
Residue after evaporation (at 0.1% aqueous)	1 ppm max
Water (KF), max	0.5 ppm

Trace Ionic Impurities (at 0.1% aqueous) (ppb, Max)	
Aluminium (Al)	20 ppb
Calcium (Ca)	50 ppb
Copper (Cu)	10 ppb
Iron (Fe)	10 ppb
Lead (Pb)	10 ppb
Magnesium (Mg)	10 ppb
Manganese (Mn)	10 ppb
Nickel (Ni)	10 ppb
Potassium (K)	20 ppb
Silver (Ag)	10 ppb
Sodium (Na)	50 ppb
Zinc (Zn)	20 ppb

For lower volumes we now offer Formic Acid also in ampules:

Cat.No.	Product Description	Pack Size
A117-10X1AMP	Formic Acid, OPTIMA LC/MS	10 x 1 mL
A117-1AMP	Formic Acid, OPTIMA LC/MS	1 mL
A117-05AMP	Formic Acid, OPTIMA LC/MS	0.5 mL
A117-2AMP	Formic Acid, OPTIMA LC/MS	2 mL

For lower volumes we now offer trifluoroacetic acid also in ampules:

Cat.No.	Product Description	Pack Size
A116-10X1AMP	Trifluoroacetic Acid, OPTIMA LC/MS	10 x 1 mL
A116-1AMP	Trifluoroacetic Acid, OPTIMA LC/MS	1 mL
A116-05AMP	Trifluoroacetic Acid, OPTIMA LC/MS	0.5 mL
A116-2AMP	Trifluoroacetic Acid, OPTIMA LC/MS	2 mL

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