

New Product: Formic Acid, Optima[®] LC/MS Grade

Catalog No.	Volume
A117-50	50mL

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.

KEY FEATURES

- Minimal metal impurities
- Low mass spectrometry background noise
- Lowest impurity background using diode array detection (LC-UV)
- Lot to lot consistency
- Extended column life due to low impurity levels using Optima LC/MS mobile phase prepared with A117 Formic Acid.

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 to confirm minimal plasticizer contamination.

RECOMMENDED STORAGE

- Store at +4°C

APPLICATIONS

- Proteomics
- Pharmaceutical research
- Drug discovery
- Biomedical research

PRODUCT SPECIFICATIONS

Name of product	Optima LC/MS Grade Formic Acid
Product Part Numbers and Package Configurations	A117-50, 50mL
Description	Clear, colorless, fuming liquid
Identification	Pass Test
Assay	99.5% min
Color (APHA), max	10
Assay for 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
Residue after evaporation (at 0.1% aqueous)	1 ppm max
Chloride, max	5 ppm
Sulfate (SO ₄), max	50 ppm
Sulfite (SO ₃), max	20 ppm
Trace Ionic Impurities (at 0.1% aqueous) (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

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