NEW Specialized LC/MS Mobile Phase Blends

Fisher Chemical™ specialized solvent blends have been developed for use in liquid chromatography mass spectrometry and are ideal for cutting-edge research applications in areas such as proteomics, metabolomics, clinical chemistry and drug discovery.

Fisher Chemical Advantages

Extensive functional testing:

- Optimal ionic strength and low pH help analyte retention/elution through reverse phase columns by eliminating stationary phase interactions
- The combination of ammonium formate-formic acid, being volatile in nature, is highly suitable for LC/MS
- Reduced metals content to prevent the formation of metal adducts
- Product stability maintained under variable transport and temperature conditions

Innovative packaging to ensure solvent quality at the point of use:

- Low background for trace analysis ensured using borosilicate glass bottle
- Integrity of specifications maintained
- Easy-to-use bottle size and shape enables solvent blends to fit inside specific LC/MS compartments

Efficient mobile phase blends reduce:

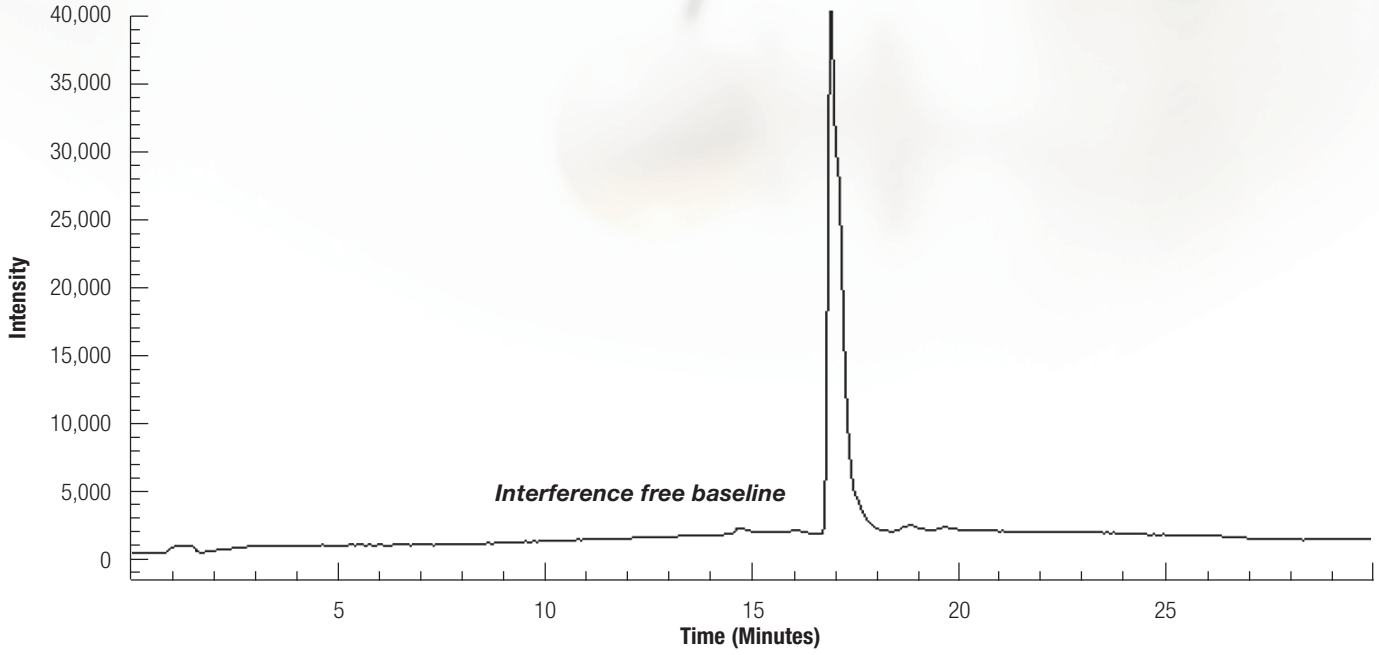
- Safety risks associated with storing, blending and disposing of hazardous solvents
- Overhead costs associated with preparing blends

Fisher Chemical LC/MS Mobile Phase Blends			
Cat. No.	**Size**	**Description**	**Type**
MB124-1	1L	45% Acetonitrile + 45% IPA + 10% Acetone	Flush Solution
MB123-1	1L	10 mM Ammonium Formate in Water with 0.05% Formic Acid	Aqueous Mobile Phase
MB122-1	1L	10 mM Ammonium Formate in Methanol with 0.05% Formic Acid	Organic Mobile Phase

Contact your local Fisher Scientific Representative to place your order today!

Specifications for Mobile Phase Blends			
Test	**MB122-1**	**MB123-1**	**MB124-1**
Assay Ammonium Formate (w/v)	0.57 to 0.69 g/L	0.60 to 0.66 g/L	NA
Assay by GC-FID	----	----	Pass Test
Color	≤ 10 APHA	≤ 10 APHA	≤ 5 APHA
LC-MS Gradient Suitability (as Vitamin D2 and D3)	Pass Test	Pass Test	Pass Test
LC-UV Gradient Suitability	Pass Test	Pass Test	Pass Test
Optical Absorbance at 210nm	----	----	≤ 1.0 AU
Optical Absorbance at 220nm	≤ 1.1 AU	≤ 1.0 AU	≤ 1.0 AU
Optical Absorbance at 254nm	≤ 0.05 AU	≤ 0.005 AU	----
pH at 25° C	----	3.4 to 3.6	----
Trace Metal Impurities			
Aluminum (Al)	≤ 5ppb	≤ 5ppb	≤ 5ppb
Calcium (Ca)	≤ 50ppb	≤ 25ppb	≤ 50ppb
Copper (Cu)	≤ 5ppb	≤ 5ppb	≤ 5ppb
Iron (Fe)	≤ 5ppb	≤ 5ppb	≤ 5ppb
Lead (Pb)	≤ 5ppb	≤ 5ppb	≤ 5ppb
Magnesium (Mg)	≤ 5ppb	≤ 5ppb	≤ 5ppb
Manganese (Mn)	≤ 5ppb	≤ 5ppb	≤ 5ppb
Nickel (Ni)	≤ 5ppb	≤ 5ppb	≤ 5ppb
Potassium (K)	≤ 10ppb	≤ 10ppb	≤ 10ppb
Silver (Ag)	≤ 5ppb	≤ 5ppb	≤ 5ppb
Sodium (Na)	≤ 50ppb	≤ 50ppb	≤ 50ppb
Zinc (Zn)	≤ 5ppb	≤ 5ppb	≤ 5ppb

LC/MS Gradient Suitability Test of MB122-1 and MB123-1 Mobile Phases Using Vitamin D2



Single ion monitoring of m/z 395 (Vitamin D2, 2.29ng on column)

Fisher Chemical

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