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ULTRA LC/MS solvents

J.T.Baker®

Lab-optimized performance: enhance separation and reproducibility, and maximize the sensitivity and detecting power of your instrumentation

J.T.Baker® BAKER ANALYZED ULTRA LC/MS™ solvents are designed to meet the needs of the most demanding ultra high pressure liquid chromatography (UHPLC) and mass spectrometry research and analytical testing applications, such as proteomics, drug discovery, pharmocokinetics, and clinical research. This grade of solvents is intended to extend the useful life of UHPLC columns by significantly reducing particles and minimizing the occurrence of erroneous peaks caused by the formation of metal adducts or the presence of organic impurities, such as phthalates and polyethylene glycol (PEG).

IMPROVED PARTICLE FILTRATION

J.T.Baker® ULTRA LC/MS solvents are filtered through 0.1µm filters providing extremely low particles, which extends column life, reducing instrument downtime and maintenance cost.

ADVANCED SUITABILITY TESTING

Function applicable suitability testing with both electrospray positive and negative modes is performed on J.T.Baker® ULTRA LC/MS solvents to ensure mass spectrometry performance. A positive mode specification has been set using reserpine at 25ppb, and a negative mode specification has been established using 4-nitrophenol at a 25ppb, maximum. The improved testing strengthens detection of extraneous organic impurities resulting in:

- Minimal baseline noise
- Reduced ionization suppression
- Improved sensitivity to both small- and large-molecule detection

REDUCED TRACE METALS

Through statistical process control, critical control parameters are monitored to ensure consistent product quality from lot-to-lot.

Low trace metal impurities provide the following benefits:

- Reduced metal adduct formation
- Improved analyte identification
- Reliable, consistent, reproducible results

Description	Grade	Cat. No.
Acetonitrile	ULTRA LC/MS	**9853-2**
Methanol	ULTRA LC/MS	**9863-2**
Water	ULTRA LC/MS	**9823-2**

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Ultra LC/MS water — sodium level (borosilicate vs amber bottle)

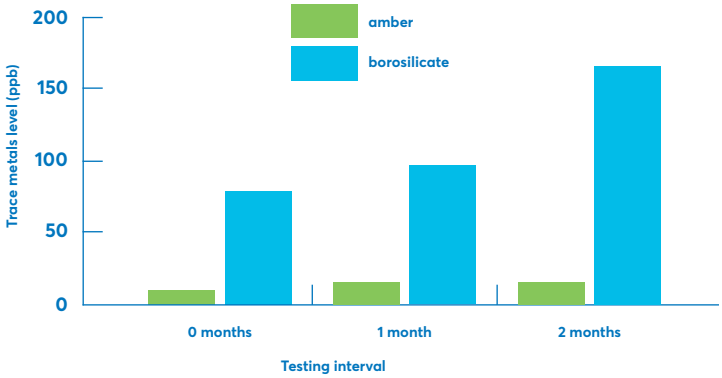

FIGURE 1: Contrasts the sodium leaching for water packaged in amber bottles to borosilicate bottles over a two month time interval.

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