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J.T.Baker® ULTRA LC/MS™ Grade Solvents

Avantor™ Performance Material's new grade of J.T.Baker ULTRA LC/MS solvents is 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, pharmacokinetics, and clinical research. This new 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

ULTRA LC/MS solvents are filtered through 0.1 µm 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 to ensure mass spectrometry performance. The positive mode specification has been set using 25 ppb as reserpine. A negative mode specification has been established using 4-nitrophenol at a 25 ppb 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

ULTRA LC/MS solvents are packaged in 1 Liter borosilicate bottles, minimizing the leaching of trace metal impurities over time vs traditional amber glass bottles. Utilizing the technique of statistical process control, critical control parameters are monitored to ensure consistent product quality from lot to lot.

The reduced metals provide the following benefits:

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

Although solvents packaged in amber glass bottles are suitable for some LC/MS applications, the applications susceptible to metal adduct interferences will benefit from these solvents.

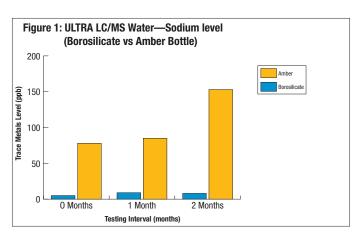


Figure 1 contrasts the sodium leaching for water packaged in amber bottles to borosilicate bottles over a two month time interval.

Product		'	
Number	Description	Grade	Size
9823-01	Water	ULTRA LC/MS	2×1 L kit
9823-02	Water	ULTRA LC/MS	6×1L case
9853-01	Acetonitrile	ULTRA LC/MS	2×1 L kit
9853-02	Acetonitrile	ULTRA LC/MS	6×1L case
9863-01	Methanol	ULTRA LC/MS	2×1 L kit
9863-02	Methanol	ULTRA LC/MS	6×1L case

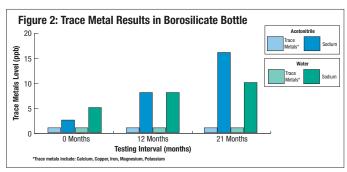


Figure 2 illustrates the consistently low trace metal levels for products packaged in borosilicate bottles over a two year period.



About Avantor™ Performance Materials

Avantor Performance Materials manufactures and markets high-performance chemistries and materials around the world under several respected brand names, including the J.T.Baker®, Macron™, Rankem™, Diagnova™, and POCH™ brands.

Avantor products are used in a wide range of industries. Our biomedical and life science solutions are used in academic, industry and quality control laboratories for research, pharmaceutical production and medical lab testing, while our electronics solutions are used in the manufacturing of semiconductors, photovoltaic cells and flat panel displays. Based in Center Valley, Pennsylvania (USA), Avantor is owned by an affiliate of New Mountain Capital, LLC.





 $For additional information please \textit{visit} \textbf{www.avantormaterials.com} \ or follow \textbf{www.twitter.com/avantor_news.com} \ or follow \textbf{www.twitter.com/avantor_news.com, or follow \textbf{www.twitter$

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