



## Chata Provides an Economic Solution for Storage and Handling of Laboratory Grade Solvents with a New “Extractable Free” CHEM+PROTECT™ Plastic Bottle

### Problem:

Analytical laboratories require ultra pure solvents and media to ensure accurate, reliable, and consistent results.

Since many solvents extract chemicals from plastic containers, manufacturers have been forced to use glass bottles or expensive Teflon™ lined containers.

Glass also presents safety hazards due to potential breakage and resulting exposure to hazardous chemicals and broken glass.

### Solution:

The new Chata CHEM+PROTECT™ packaging system protects your solvents from contamination by extractables from the container. The CHEM+PROTECT™ package is safer and much easier to handle than glass bottles and is designed to minimize lab space.

CHEM+PROTECT™ is more economical to use than Teflon™ lined containers. Additionally, the CHEM+PROTECT™ bottles are translucent enabling quick assessment of the contents remaining.

The chromatograms below illustrate that Acetonitrile and Methanol exemplify the same elution pattern whether stored in the standard glass bottles or the

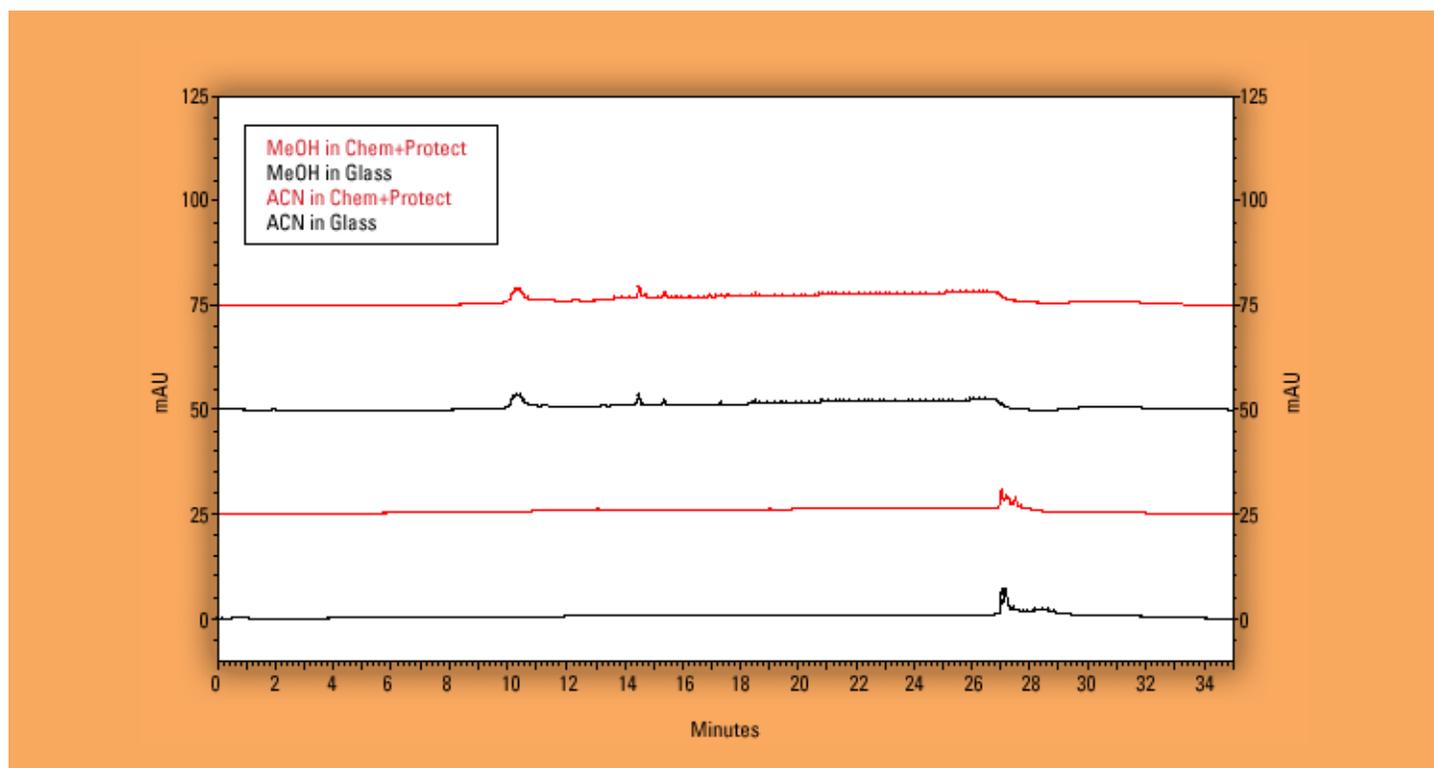


The technology is available in two sizes:  
4 Liters and 10 Liters

## APPLICATION NOTE

CHEM+PROTECT™ bottle sold by CHATA Biosystems, Inc. Therefore, there are no extraneous peaks resulting from extractables. The storage time was 13 weeks.

The HPLC method used for testing the purity of the stored solvents involves a gradient that begins at a low ratio of solvent to water and gradually increases the solvent concentration to 100%. A C18 column was used and the flow rate was 1.5 mL/minute. The wavelengths tested were 215, 235, and 254nm and the resolution shown for all plots was 0 to 150 mAU's. This method is a more rigorous test procedure for extractables than the ASTM D 1239-07 method and is the industry standard for determining solvent purity.



Contact your Chata Sales Manager or contact the Chata Sales Office at:

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