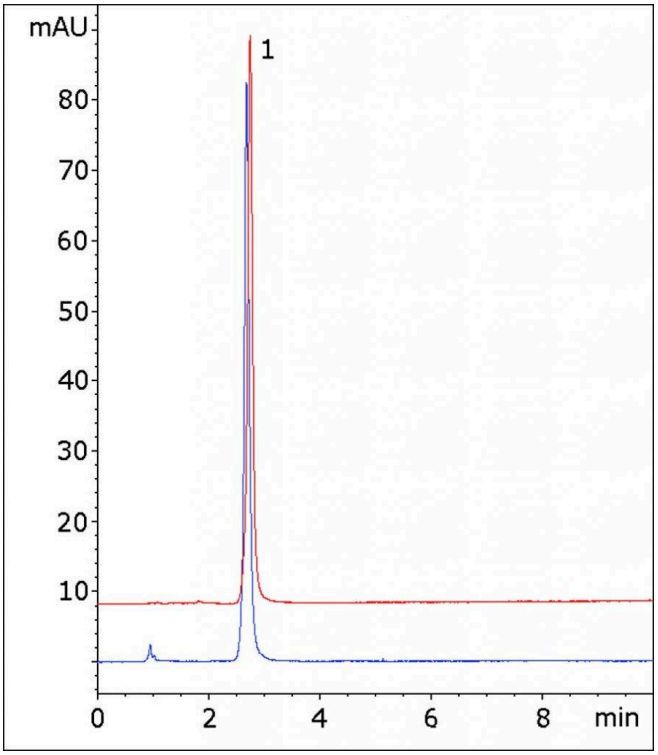
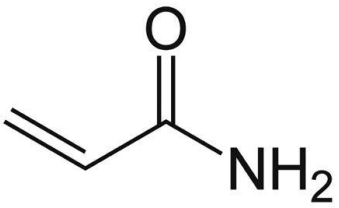
Acrylamide HPLC Analyzed with HPLC - AppNote

Easy & Precise Retention of a Very Polar Compound

Acrylamide can be difficult to retain with conventional Reversed Phase Methods due to its polar nature. With this Method however, Retention is readily achievable using a simple, Isocratic Mobile Phase. The overlay of two Chromatograms using two different lots of HPLC Columns in the *Figure* below illustrates the Reproducibility and Robustness of this Method.





Peak:

Acrylamide

Method Conditions

Column: Cogent Diamond Hydride™, 4µm, 100Å
Catalog No.: 70000-7.5P
Dimensions: 4.6 x 75mm
Mobile Phase: Acetonitrile with 0.1% Formic Acid
Injection vol.: 1µL
Flow rate: 1.0mL / minute

Detection: UV @ 205nm
Sample Preparation: 0.1mg / mL Acrylamide in Mobile Phase as the Diluent.
t_0: 1.0 minute

Note: *Acrylamide is a monomer used to synthesize polyacrylamides. It was reported to be present in certain food products in 2002. This has been cause for concern as the monomer form is a known carcinogen and neurotoxin. As such, quantitation of this analyte is of importance in a variety of fields.*

COGENT HPLC Columns™

Attachment

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