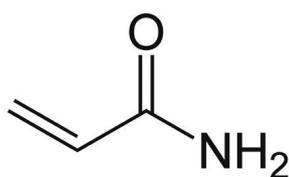
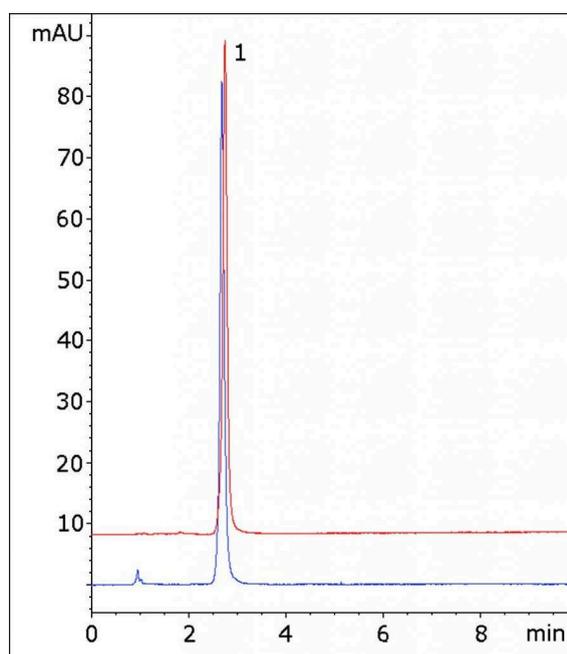


## Acrylamide Analyzed with HPLC - AppNote

### 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<sub>o</sub>** : 1.0 minute

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**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.

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Attachment: No 199 Acrylamide Analyzed with HPLC pdf 0.3 Mb [Download File](#)

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