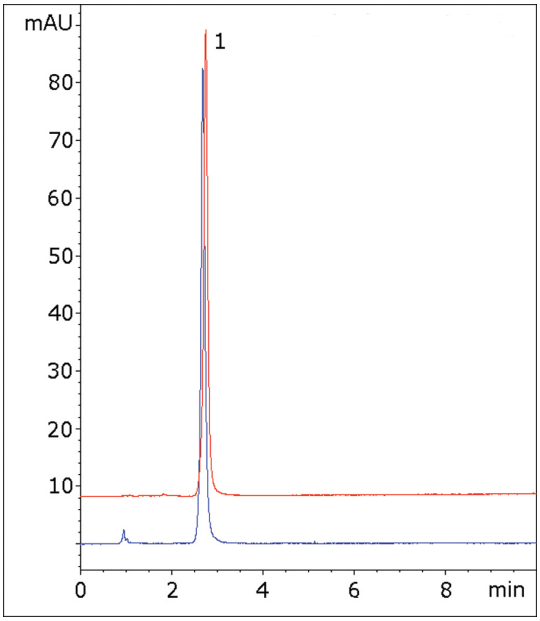
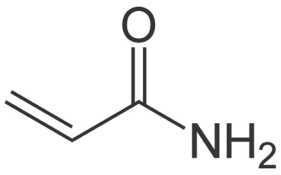
Acrylamide

Easy and precise retention





Acrylamide

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.

Method Conditions

Column: Cogent Diamond Hydride™, 4µm, 100Å

Catalog No.: 70000-7.5P

Dimensions: 4.6 x 75 mm

Mobile Phase: Acetonitrile / 0.1% formic acid

Injection vol.: 1µL

Flow rate: 1.0 mL/min

Detection: 205 nm

Sample: 100 mg/L acrylamide in mobile phase diluent.

Peak: 1. Acrylamide

t_0: 1.0 min

Discussion

Acrylamide is difficult to retain with conventional reversed phase methods due to its polar nature. With the Cogent Diamond Hydride column however, retention is readily achievable using a simple isocratic mobile phase. The overlay in the figure illustrates lot-to-lot reproducibility of the stationary phase material. Injections using columns of two different lots of material are shown in the figure.

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