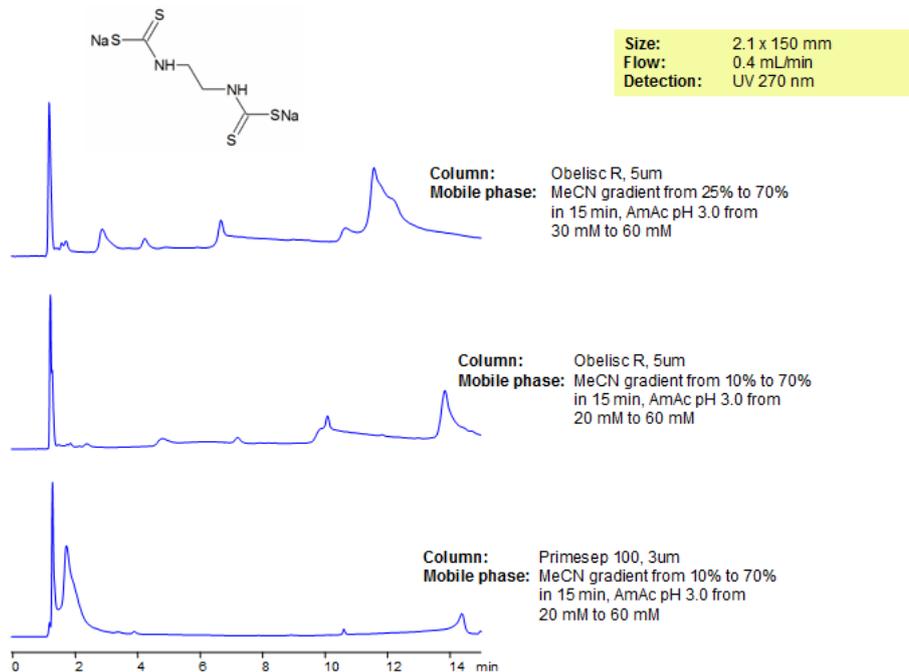


## HPLC Separation of Nabam on Mixed-Mode Columns



Nabam is a pesticide that controls algae, bacteria and fungal growth in aquatic industrial settings, and food processing water systems such as those used for cane and beet sugar production. Analysis of nabam is useful outside of agricultural science and food production since it can be used as a biocide for industrial purposes. Primesep 100 and Obelisc R were used to analyze nabam. Method is LC/MS compatible, and can be used for dozens of pesticides.

SIELC has developed the Obelisc™ columns, which are mixed-mode and utilize Liquid Separation Cell technology (LiSC™). These cost-effective columns are the first of their kind to be commercially available and can replace multiple HPLC columns, including reversed-phase (RP), AQ-type reversed-phase, polar-embedded group RP columns, normal-phase, cation-exchange, anion-exchange, ion-exclusion, and HILIC (Hydrophilic Interaction Liquid Chromatography) columns. By controlling just three orthogonal method parameters - buffer concentration, buffer pH, and organic modifier concentration - users can adjust the column properties with pinpoint precision to separate complex mixtures.

### Method Parameters

<b>Column</b>	Primesep 100, 2.1×150 mm, 5 µm, 100 Å
<b>Mobile Phase</b>	Gradient MeCN – 10-70%, 15 min
<b>Buffer</b>	Gradient AmAc pH 3.0- 20-60 mM, 15 min
<b>Flow Rate</b>	0.4 mL/min
<b>Detection</b>	UV, 270 nm

Quelle: <https://sielc.com/Application-HPLC-Separation-of-Nabam-on-Mixed-Mode-Columns>