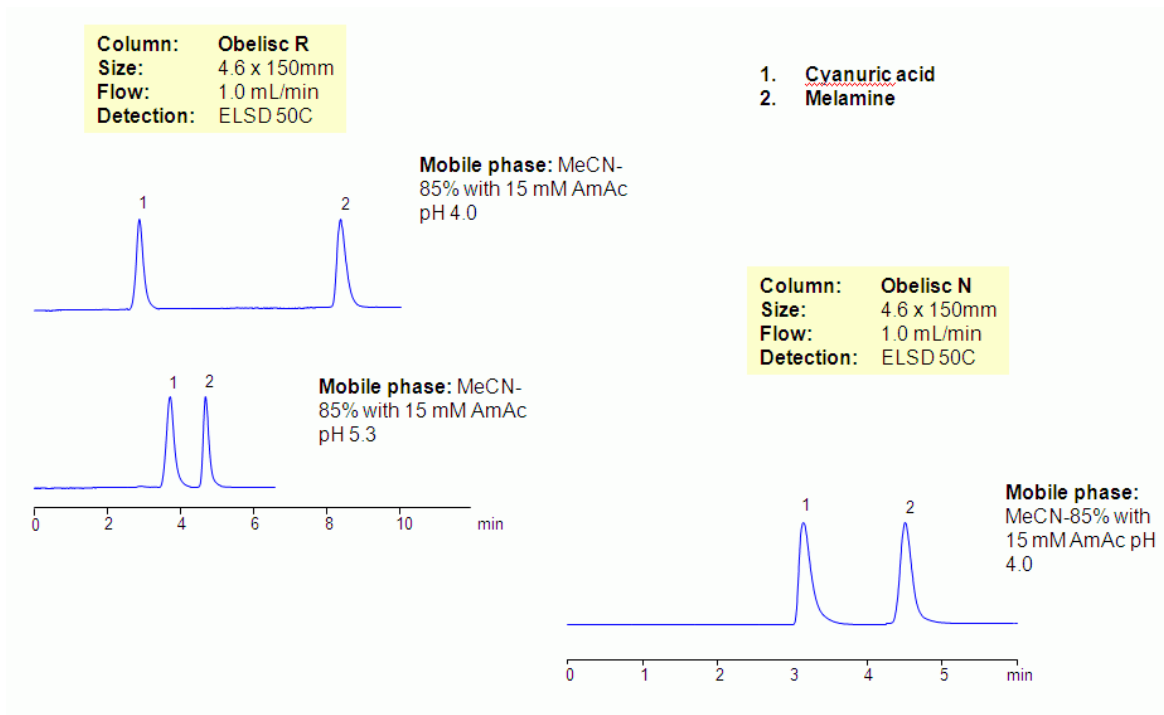


## HPLC Method for the Simultaneous Separation of Melamine and Cyanuric Acid on an Obelisc R Column



Melamine is an organic basic compound that is derived from cyanamide. It contains 66% nitrogen by mass. Addition of melamine is used to increase protein count in milk products. Cyanuric acid is a trimer of cyanic acid. Melamine and cyanuric acid can form an insoluble complex. Both compounds have been linked as additives to modify nitrogen count in products. Cyanuric acid is a slightly acidic hydrophilic compound, while melamine is a basic hydrophilic compound. Both compounds were separated on Obelisc R reversed-phase ion-exchange column with LC/MS compatible mobile phase. Method can be used for generic analysis of basic and acidic compounds with LC/MS compatible conditions.

### Method Parameters

|                     |                                                  |
|---------------------|--------------------------------------------------|
| <b>Column</b>       | Obelisc R, 4.6 x 150 mm, 5 µm, 100 Å, dual ended |
| <b>Mobile Phase</b> | MeCN                                             |
| <b>Buffer</b>       | AmAc                                             |
| <b>Flow Rate</b>    | 1.0 mL/min                                       |
| <b>Detection</b>    | ELSD50C                                          |

Quelle: <https://sielc.com/application-simultaneous-separation-of-melamine-and-cyanuric-acid-2>