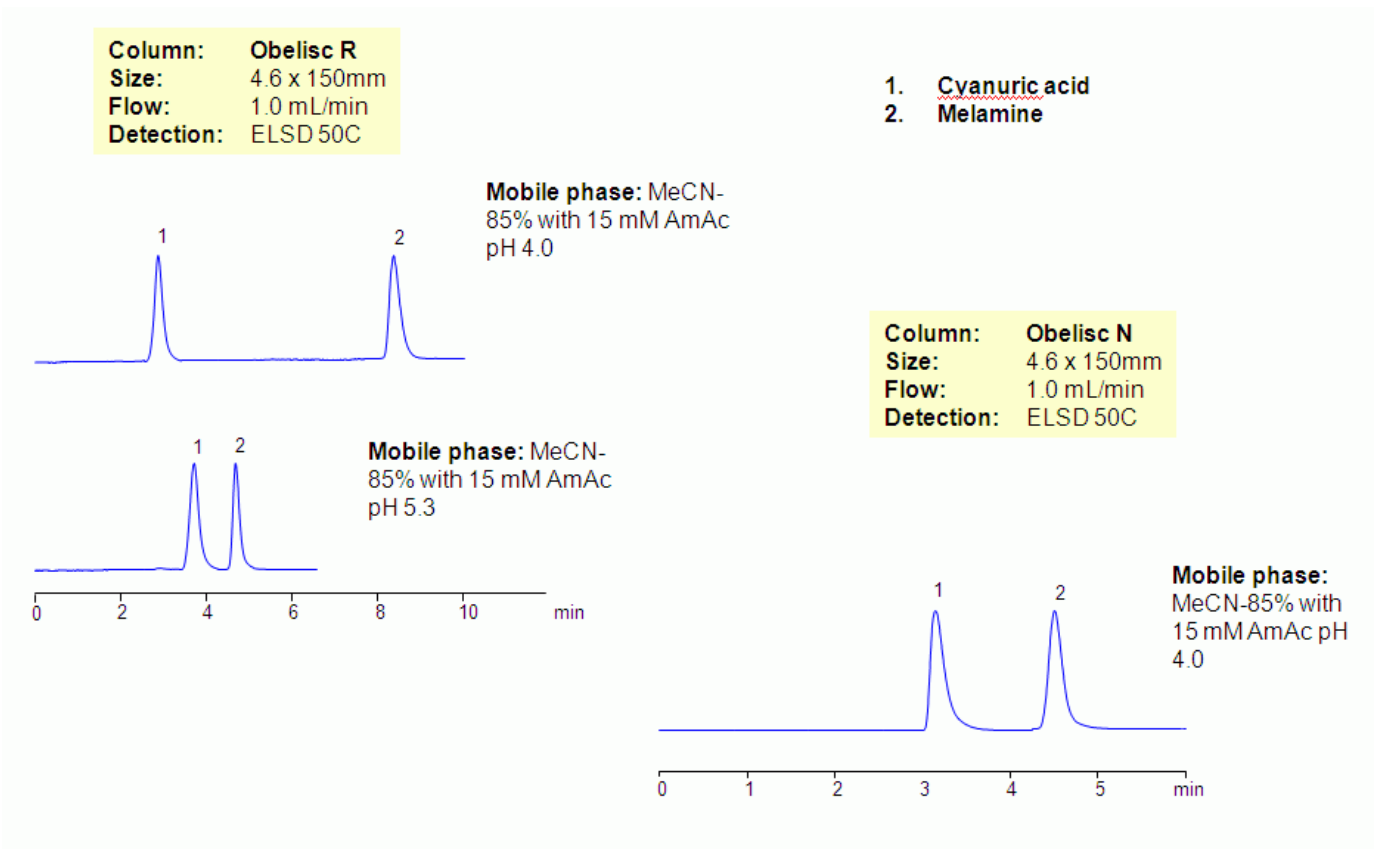
HPLC Method for the Simultaneous Separation of Melamine and Cyanuric Acid on an Obelisc N Column

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

Chromatogram



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Description

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 a insoluble complex. Both compounds has 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

Mobile Phase	MeCN
Buffer	AmAc
Flow Rate	1.0 ml/min
Detection	ELSD 50C
Class of Compounds	Acid, Hydrophobic, Ionizable

Analyzing Compounds	Melamine, Cyanuric Acid

HPLC Column Used

Obelisc N, 4.6 x 150 mm, 5 µm, 100 A, dual ended

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