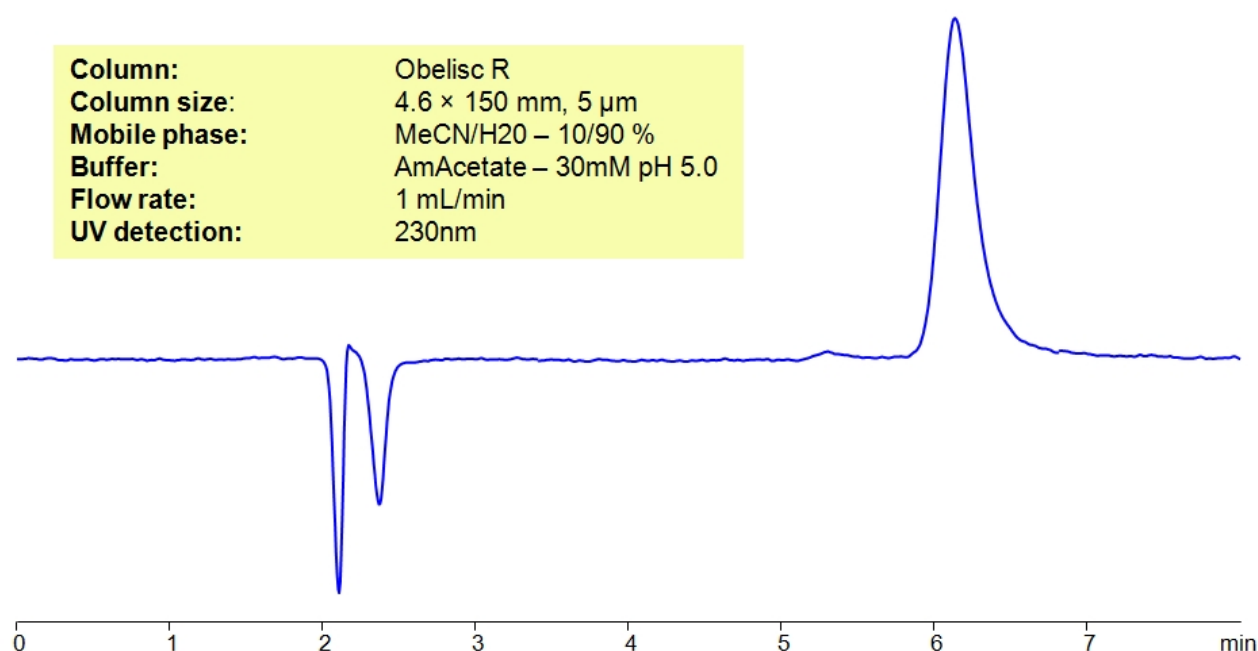


HPLC Method for Analysis of Pentosidine

<https://sielc.com/hplc-method-for-analysis-of-pentosidine>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Pentosidine

Pentosidine is an advanced glycation end-product (AGE) with the chemical formula $C_{17}H_{26}N_6O_4 \cdot CF_3COOH$. Since it is a fluorescent biomarker, it is often used as an indicator in studies of aging and chronic diseases including diabetes and uremia.

Pentosidine can be retained and analyzed using the Obelisc R stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with an ammonium acetate buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN – 20%
Buffer	Ammonium acetate
Flow Rate	1.0 ml/min
Detection	UV
Class of Compounds	Advanced Glycation End-Product
Analyzing Compounds	Pentosidine

HPLC Column Used

Obelisc R, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](#)