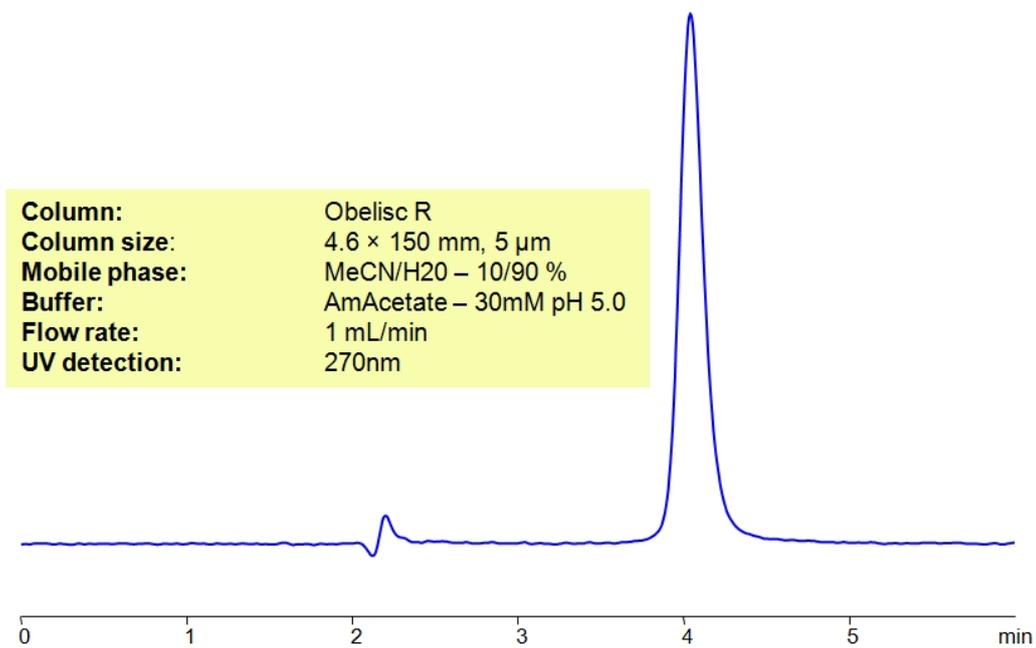


## HPLC Method for Analysis of Desmosine



### High Performance Liquid Chromatography (HPLC) Method for Analysis of Desmosine

Desmosine is pyridinium-based amino acid derivative with C<sub>24</sub>H<sub>40</sub>N<sub>5</sub>O<sub>8</sub> + molecular formula. It is found exclusively in elastin. Elevated levels of desmosine in urine can be a symptom of Chronic Obstructive Pukmonary Disease (COPF), so it can be used as a biomarker when monitoring progression and aiding in a potential diagnosis.

Desmosine 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

<b>Column</b>	Obelisc R, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN – 10%
<b>Buffer</b>	AmAcetate – 30 mM pH 5.0
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV 270 nm

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