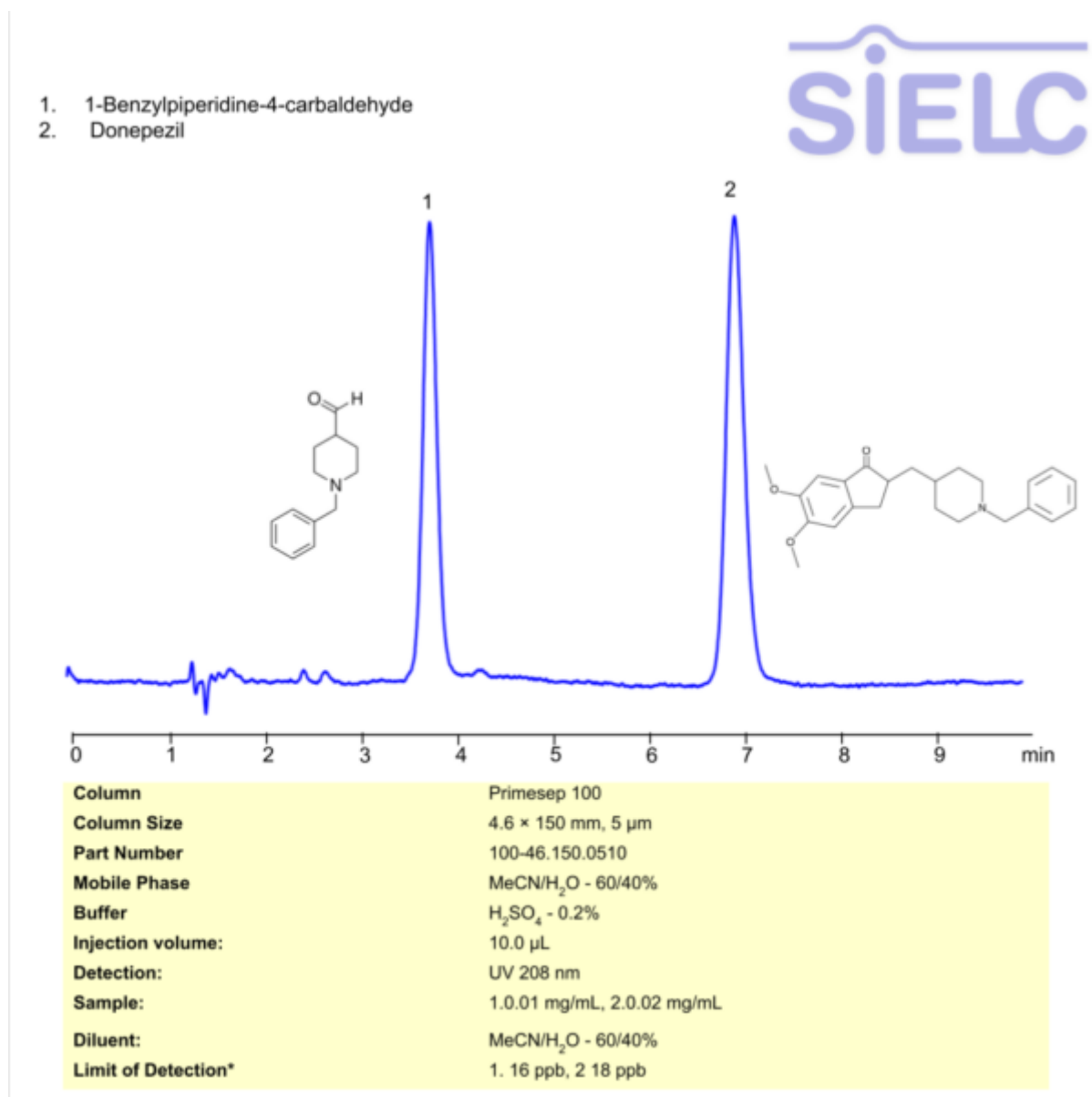


HPLC Method for Separation of Donepezil and 1-Benzylpiperidine-4-carbaldehyde on Primesep 100 Column

<https://sielc.com/hplc-analysis-of-donepezil-1-benzylpiperidine-4-carbaldehyde>

Chromatogram



Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Donepezil , 1-Benzylpiperidine-4-carbaldehyde

Donepezil is a medication with the chemical formula C₂₄H₂₉NO₃. It is primarily used to treat dementia and improve cognition, but has not shown to cause any change in the progression of the disease. Some research suggests that it can be used to treat Lewy body dementia, effects of traumatic brain injury, and vascular dementia. 1-Benzylpiperidine-4-carbaldehyde is an important intermediate used in pharmaceutical and medicinal chemistry research. Its reactive aldehyde group and piperidine ring make it useful for synthesizing biologically active compounds.

You can find detailed UV spectra of Donepezil , 1-Benzylpiperidine-4-carbaldehyde and information about its various lambda maxima by visiting the following link.

Donepezil , 1-Benzylpiperidine-4-carbaldehyde can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of acetonitrile (MeCN). Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 60/40%
Buffer	Sulfuric Acid – 0.2%
Flow Rate	1.0 ml/min
Detection	UV 208 nm
Limit of Detection*	1. 16 ppb, 2.0 18 ppb
Class of Compounds	Drug
Analyzing Compounds	Donepezil, 1-Benzylpiperidine-4-carbaldehyde

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](http://hplc-shop.de)