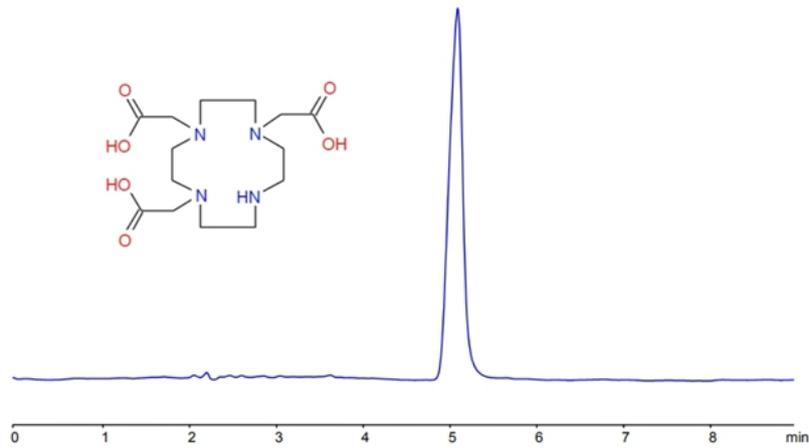


HPLC Determination of DO3A on Primesep 200 Column



Column:	Primesep 200
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN/H ₂ O – 30/70%
Buffer:	H ₃ PO ₄ - 0.02%
Flow rate:	1 mL/min
UV detection:	200 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of DO3 Å .

DO3 Å is a derivative of DOTA and has the chemical formula C₁₄H₂₃N₄O₆Na₃. DOTA is an acronym for 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid. It is used to bind metal ions, partially due to its stability. It is often employed in biomedical applications including but not limited to MRI contrast agents and targeted cancer therapy.

DO3 Å can be retained and analyzed using the Primesep 200 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a [buffer] buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 200
Mobile Phase	MeCN/H ₂ O – 30/70%
Buffer	H ₂ SO ₄ – 0.02%
Flow Rate	1.0 mL/min
Detection	UV, 200 nm

Quelle: <https://sielc.com/hplc-determination-of-do3a-on-primesep-200-column>