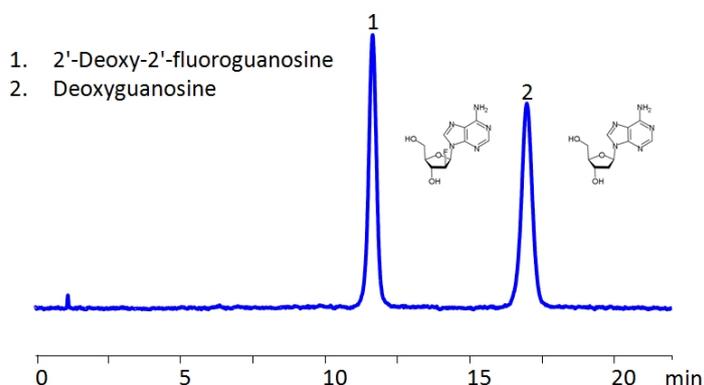


HPLC Separation of 2'-Deoxy-2'-fluoroguanosine and Deoxyguanosine on Newcrom AH Cloumn



Column:	Newcrom AH
Column size:	4.6 × 150 mm, 5 µm
Column part number:	NAH-46.150.0510
Mobile phase:	H ₂ O – 100%
Buffer:	No
Flow rate:	1.0 mL/min
Detection:	UV 252 nm (MS-compatible mobile phase)

High Performance Liquid Chromatography (HPLC) Method for Analysis of 2'-Deoxy-2'-fluoroguanosine and Deoxyguanosine

Nucleosides are the building blocks for DNA and RNA as well as other roles in biomechanical processes such as signal transduction. 2'-Deoxy-2'-fluoroguanosine is an antiviral nuceloside that can help the body fight influenza A & B. Deoxyguanosine is one of the four core deoxyribonucleosides that compose DNA. The only difference chemically is the addition of a fluorine atom on the non-Nitrogen ring.

2'-Deoxy-2'-fluoroguanosine and Deoxyguanosine can be detected in the high UV regime. Using a Newcrom AH mixed-mode column and a mobile phase consisting of just water (without a buffer), 2'-Deoxy-2'-fluoroguanosine and Deoxyguanosine can be retained, separated, and analyzed. This analysis method can be UV detected at 252 nm with high resolution. This method is compatible with Mass Spectrometry.

Method Parameters

Column	Newcrom AH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	H ₂ O – 100%
Buffer	No
Flow Rate	1.0 mL/min
Detection	UV, 252 nm

Quelle: <https://sielc.com/hplc-separation-of-2-deoxy-2-fluoroguanosine-and-deoxyguanosine>