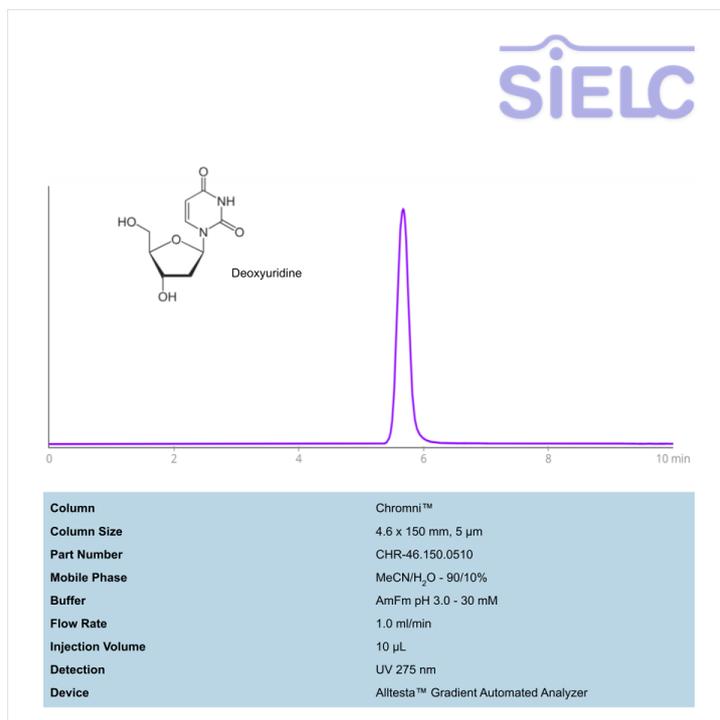


HPLC Method for Analysis of Deoxyuridine on Chromite™ Column on Alltesta™



High Performance Liquid Chromatography (HPLC) Method for Analysis of Deoxyuridine

Deoxyuridine (dU) is a nucleoside with the C₉H₁₂N₂O₅ molecular formula. While in living organisms it exists primarily to occasionally become a part of DNA, its variants, Idoxuridine and Trifluoride, work as antiviral drugs. If consumed, Deoxyuridine can be toxic.

Deoxyuridine can be retained and analyzed using the Chromni stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with phosphoric acid as a buffer. Detection is performed using UV.

Method Parameters

| | |
|---------------------|------------------------------------------------|
| Column | Chromni, 4.6 x 150 mm, 5 µm, 100 Å, dual ended |
| Mobile Phase | MeCN – 90% |
| Buffer | AmFm pH 3.0 – 30 mM |
| Flow Rate | 1.0 mL/min |
| Detection | UV 275 nm |

Quelle: <https://sielc.com/hplc-method-for-analysis-of-deoxyuridine-2>