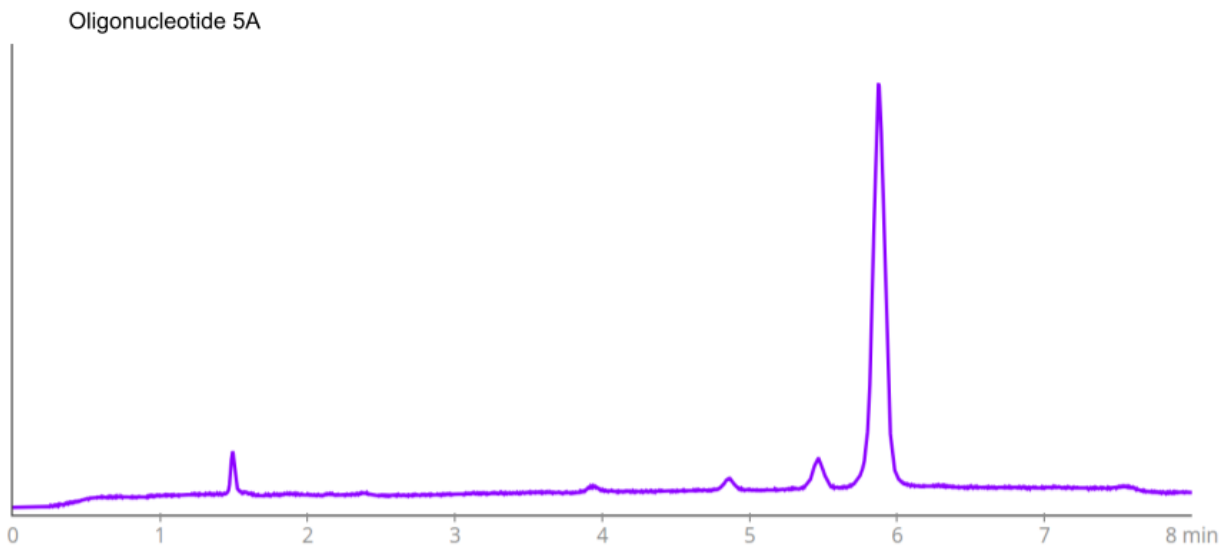
HPLC Method for Analysis of Oligonucleotide 5A on Chromni™ Column on Alltesta™

https://sielc.com/hplc-method-for-analysis-of-oligonucleotide-5a

Chromatogram



Column	Chromni™
Column Size	4.6 x 150 mm, 5 µm
Part Number	CHR-46.150.0510
Mobile Phase	Gradient MeCN/H_2O – 80/20% -> 60/40% in 9 min
Buffer	AmFm pH 4.0 - 20 mM
Flow Rate	1.0 ml/min
Injection Volume	5 µL
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Oligonucleotide 5A.

Oligonucleotide 5A is a small RNA molecule with a specific adenine sequence. They are primarily used to inhibit viral and cancer cell growth. In RNA synthesis, they are intermediates in enzymatic synthesis of capped RNAs.

Oligonucleotide 5A can be retained and analyzed using the Chromni stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN) with an ammonium formate as a buffer.

Detection is performed using UV.

Method Parameters

Mobile Phase	Gradient MeCN – 80-60%
Buffer	Ammonium Formate
Flow Rate	1.0 mL/min
Detection	UV 275 nm
Class of Compounds	Nucleotide Base
Analyzing Compounds	Oligonucleotides

HPLC Column Used

Chromni, 4.6 x 150 mm, 5 µm, 100 A, dual ended

Order this column at hplc-shop.de →