

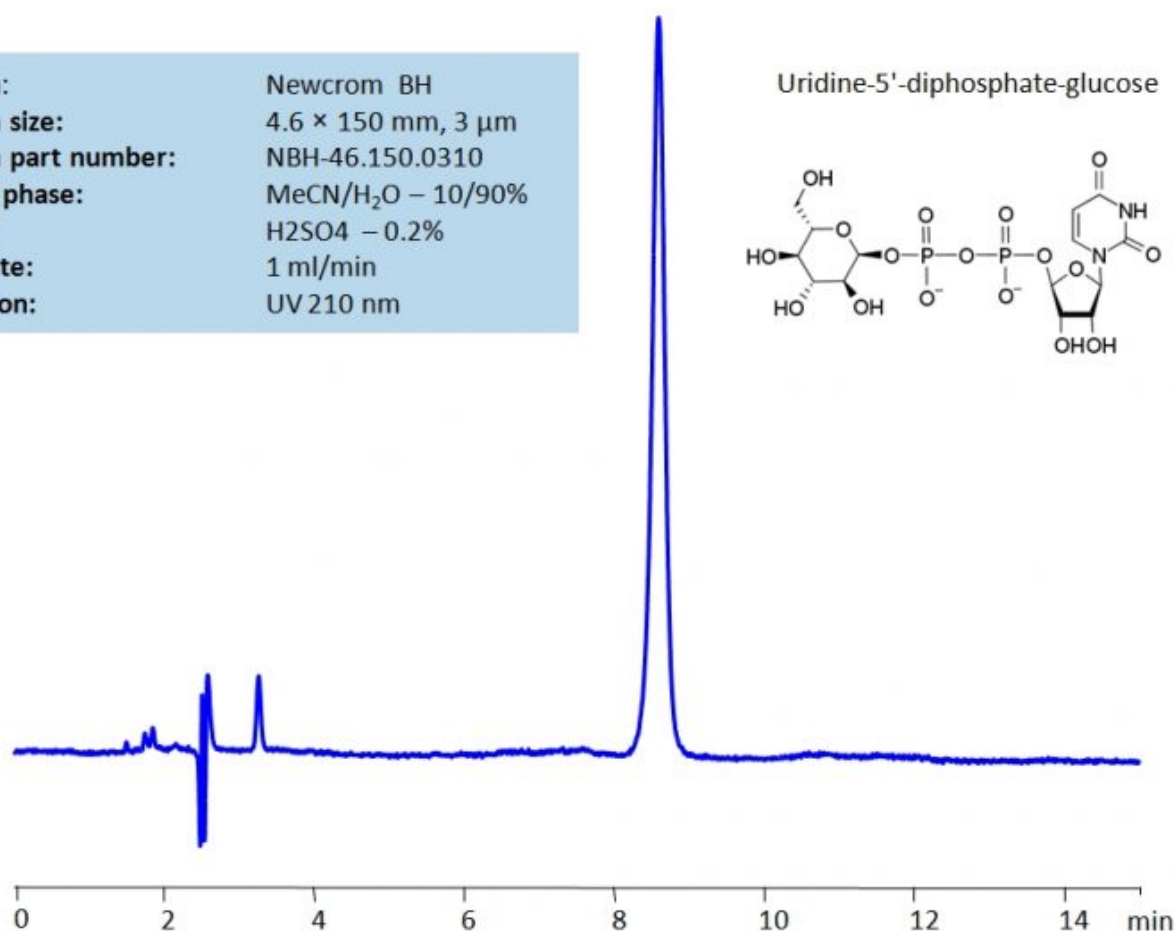
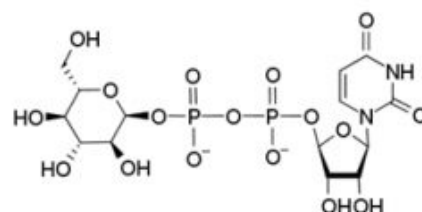
HPLC Determination of Uridine Diphosphate Glucose on Newcrom BH

<https://sielc.com/hplc-determination-of-uridine-diphosphates-glucose-on-newcrom-bh>

Chromatogram

Column: Newcrom BH
Column size: 4.6 × 150 mm, 3 µm
Column part number: NBH-46.150.0310
Mobile phase: MeCN/H₂O – 10/90%
Buffer: H₂SO₄ – 0.2%
Flow rate: 1 ml/min
Detection: UV 210 nm

Uridine-5'-diphosphate-glucose



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Fructose 1,6 Bisphosphate

Uridine Diphosphate Glucose (UDP-glucose) is an an important nucleotide sugar with the chemical formula C₁₅ H₂₄ N₂ O₁₇ P₂ . It is involved in metabolic processes in the cell. It is a precursor to glycogen, UDP-galactose, and UDP-glucuronic acid, as well as other polysacchrides and glycosphingolipids.

UDP-Galactose can be detected in the low UV regime. Using a Newcrom BH mixed-mode column and a mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid (H₂SO₄) buffer, UDP-galactose can be retained, measured, and analyzed. This analysis method can be UV detected at 210 nm.

Method Parameters

Mobile Phase	MeCN – 10%
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 ml/min

Detection	UV 210 nm
Class of Compounds	Sugar, Phospate
Analyzing Compounds	Uridine-5'-diphosphate-glucose

HPLC Column Used

Newcrom BH, 2.1 x 150 mm, 3 µm, 100 A, dual ended

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