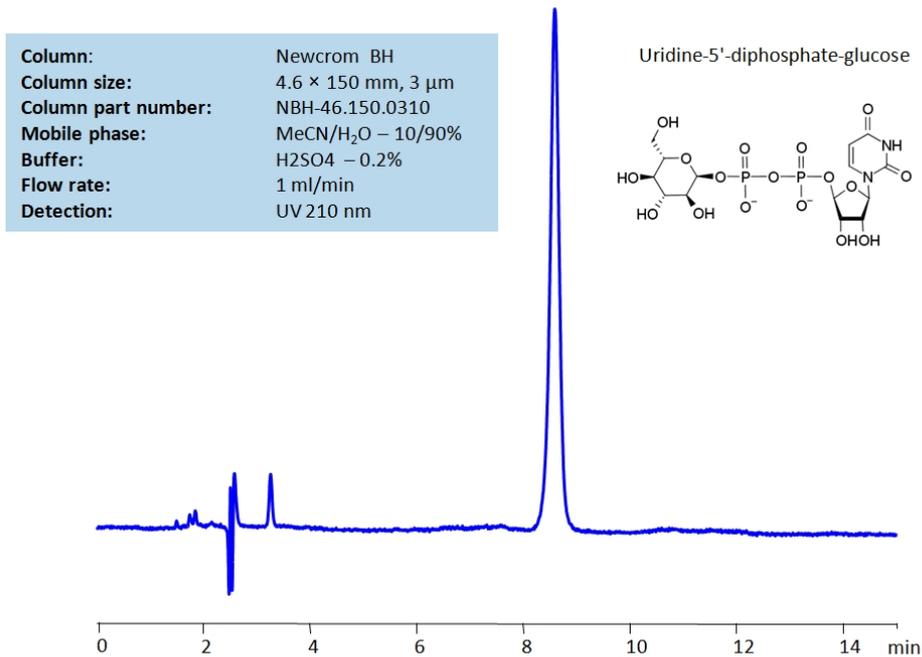


HPLC Determination of Uridine Diphosphate Glucose on Newcrom BH



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 C₁₅H₂₄N₂O₁₇P₂ . 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

Column	Newcrom BH, 2.1 x 150 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN – 10%
Buffer	H ₂ SO ₄ – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 210 nm

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