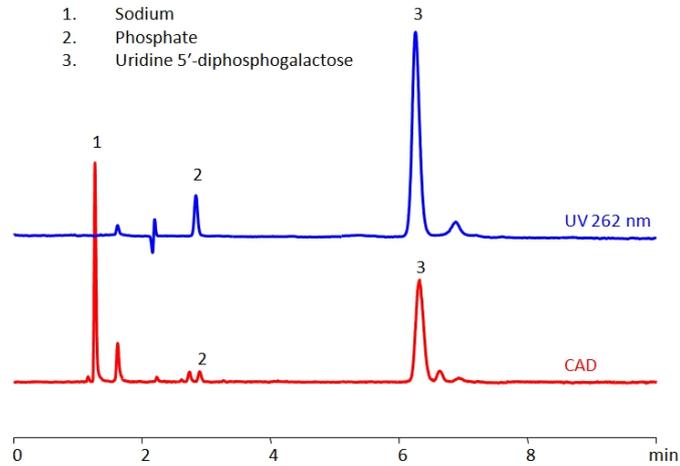


HPLC Determination of Uridine Diphosphate Galactose on Newcrom B Column



Column:	Newcrom B
Column size:	4.6 x 150 mm, 3 µm
Column part number:	NB-46.150.0310
Mobile phase:	MeCN/H ₂ O - 10/90%
Buffer:	AmFm pH 3.0 -20 mM
Flow rate:	1.0 mL/min
Detection:	CAD, 262 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of Uridine 5'-diphosphogalactose disodium salt .

Uridine Diphosphate Galactose (UDP-galactose) is an intermediary formed in the biosynthesis of polysaccharides with the chemical formula C₁₅H₂₄N₂O₁₇P₂ . It is important in glycolysis, which is a metabolic pathway that converts glucose into pyruvate.

UDP-galactose can be detected in the low UV regime. Using a Newcrom B mixed-mode column and a mobile phase consisting of water and acetonitrile (MeCN) with an ammonium formate (AmFm) buffer, UDP-galactose can be retained and separated. This analysis method can be UV detected at 265 nm, or via charged aerosol detection (CAD), both with high resolution.

Method Parameters

Column	Newcrom B, 4.6 x 150 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 10/90%
Buffer	AmFm – pH 3.0 – 20 mM
Flow Rate	1.0 mL/min
Detection	CAD, 262 nm

Quelle: <https://sielc.com/hplc-determination-of-uridine-diphosphate-galactose-on-newcrom-b-column>