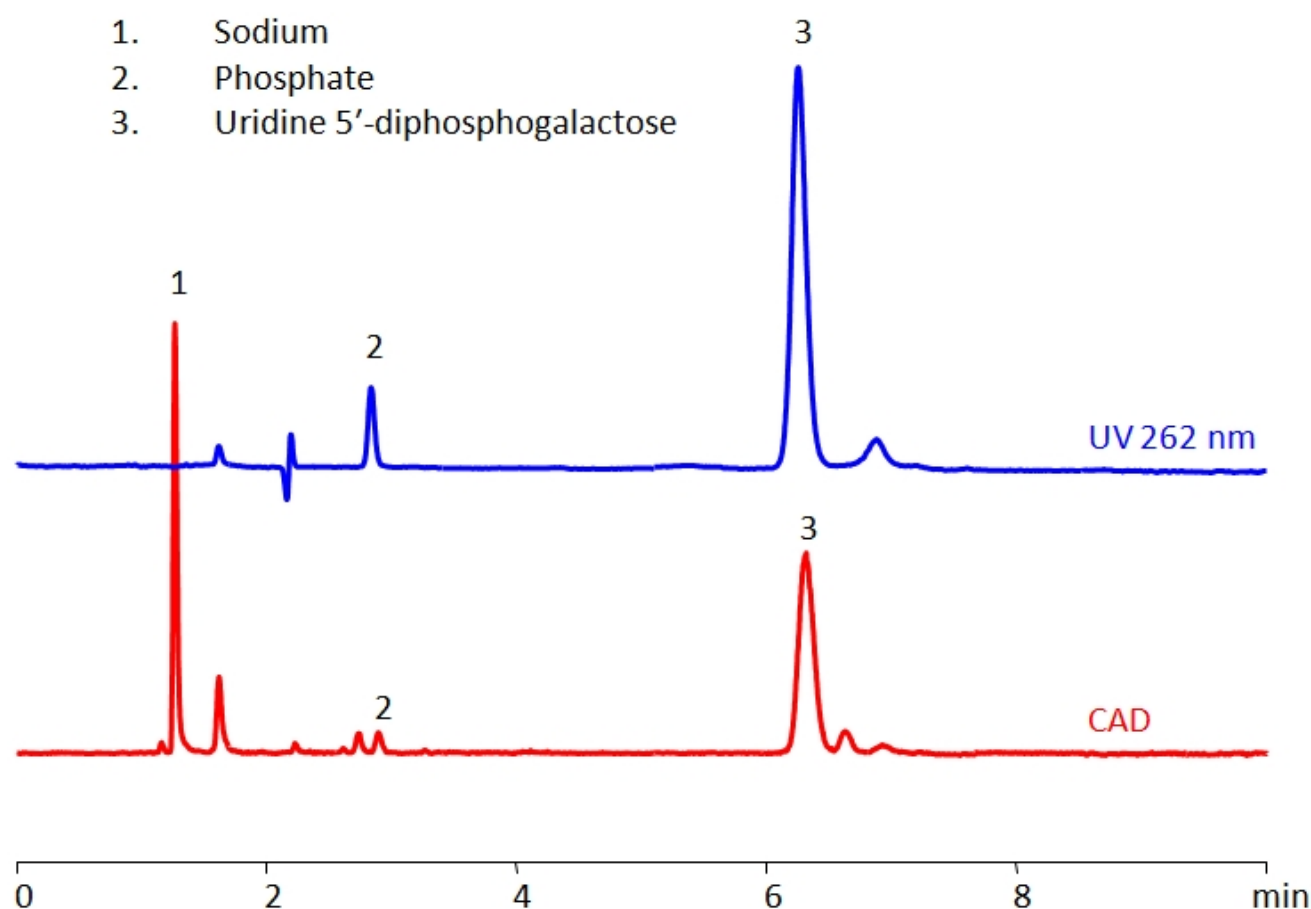


HPLC Determination of Uridine Diphosphate Galactose on Newcrom B Column

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

Chromatogram



Column:	Newcrom B
Column size:	4.6 × 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

Description

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 C₁₅ H₂₄ N₂ O₁₇ P₂ . 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

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
Class of Compounds	Sugar Phosphate
Analyzing Compounds	Uridine 5'-diphosphogalactose disodium salt

HPLC Column Used

Newcrom B, 4.6 x 150 mm, 3 µm, 100 Å, dual ended

[Order this column at **hplc-shop.de** →](#)