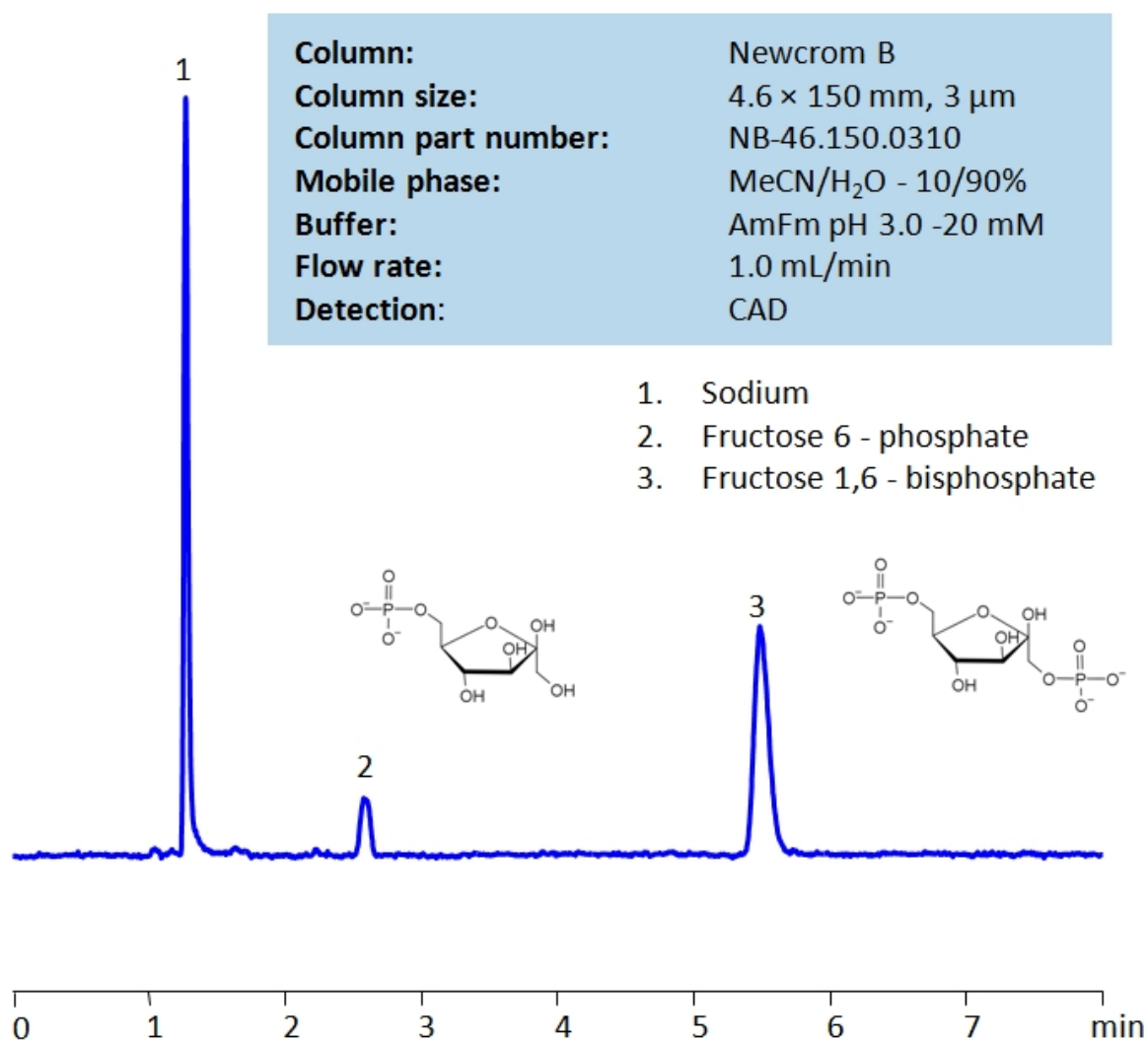


HPLC Determination of Fructose 1,6 Bisphosphate on Newcrom B Column

<https://sielc.com/hplc-determination-of-fructose-16-bisphosphate>

Chromatogram



Description

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

Fructose 1,6-biphosphate , alternatively known as Harden-Young ester , is the main form glucose and fructose take when they enter cells. It is a key component of the glycolysis metabolic pathway and is the product of the phosphorylation of fructose 6-phosphate. It has the chemical formula C₆ H₁₄ O₁₂ P₂ . Using a Newcrom B mixed-mode column and a mobile phase consisting of water and acetonitrile with an ammonium formate (AmFm) buffer, Fructose 1,6-bisphosphate can be retained, separated (from fructose 6-phosphate), and measured. Fructose 1,6 bisphosphate can be detected using charged aerosol detection (CAD) with high resolution.

Method Parameters

Mobile Phase

MeCN/H₂O – 10/90%

| | |
|----------------------------|--|
| Buffer | AmFm – pH 3.0 – 20 mM |
| Flow Rate | 1.0 ml/min |
| Detection | CAD |
| Class of Compounds | Sugar Phosphate |
| Analyzing Compounds | Fructose 1,6 Bisphosphate, Phosphate, Fructose 6-Phosphate |

HPLC Column Used

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

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