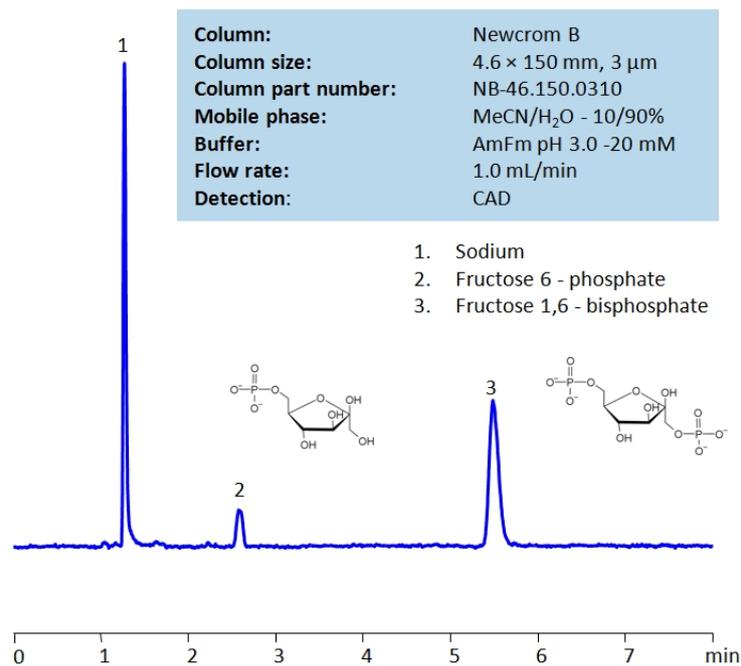


HPLC Determination of Fructose 1,6 Bisphosphate on Newcrom B Column



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

Fructose 1,6-bisphosphate , 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 C₆H₁₄O₁₂P₂ . 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

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

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