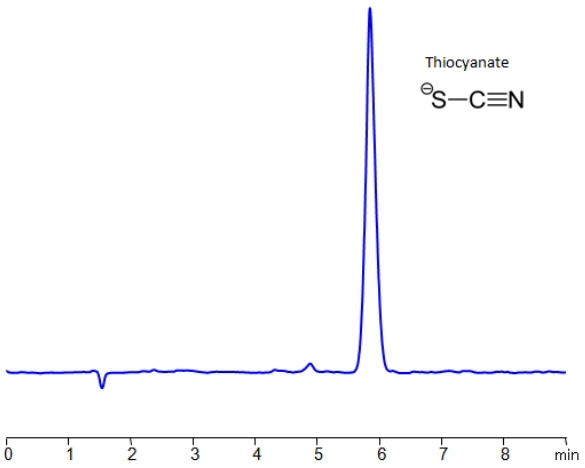
HPLC Determination of Thiocyanate on Newcrom BH Column



Column:	Newcrom BH
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN/H2O – 50/50%
Buffer:	Ammonium Acetate pH 5.0 – 50 mM
Flow rate:	1 ml/min
Detection:	UV 235 nm, (MS-compatible mobile phase)

High Performance Liquid Chromatography (HPLC) Method for Analysis of Potassium Thiocyanate .

Thiocyanate is a pseudohalide with the chemical formula [SCN] – . It works as a biological metabolite in humans and is produced in the liver during detoxification process. While it is a part of the body's antimicrobial defenses, high presence of it can hinder iodine uptake, leading to an iodine deficiency.

Potassium Thiocyanate can be retained and analyzed using the Newcrom BH stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a Ammonium Acetate buffer. Detection is performed using UV.

Method Parameters

Column	Newcrom BH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 50/50%
Buffer	Ammonium Acetate pH 5.0 50 mM
Flow Rate	1.0 mL/min
Detection	UV 235 nm, MS-compatible mobile phase

Quelle: https://sielc.com/hplc-determination-of-thiocyanate-on-newcrom-bh-column