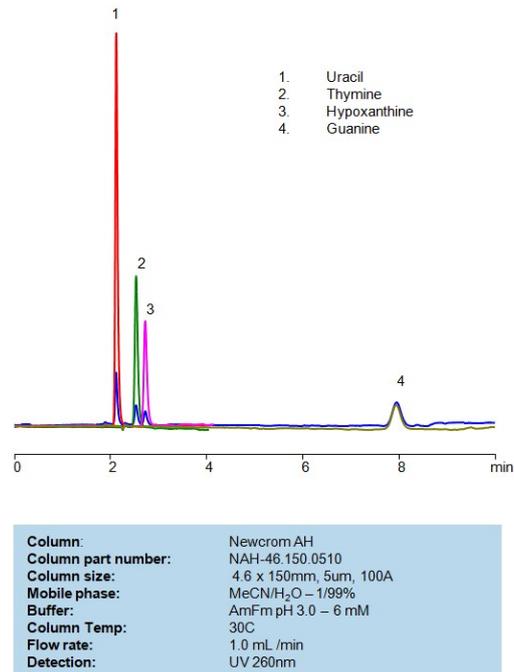


HPLC Separation of Uracil, Thymine, Hypoxanthine and Guanine on Newcrom AH



Separation type: Liquid Chromatography Mixed-mode

Uracil, Thymine, Hypoxanthine, and Guanine are all nitrogenous bases, each playing distinct roles in the biochemistry of nucleic acids.

These nitrogenous bases are crucial for the structure, replication, and function of nucleic acids. Understanding their properties and interactions is fundamental to molecular biology and genetics.

Nucleotides can be retained and analyzed on a mixed-mode Newcrom AH column with a mobile phase consisting of water, Acetonitrile (MeCN), and ammonium formate. This analytical method can detect compounds with high resolution and peak symmetry using UV detection at 260 nm

Method Parameters

Column	Newcrom AH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 1%
Buffer	Ammonium formate pH 3.0- 6 mM
Flow Rate	1.0 mL/min
Detection	260 nm

Quelle: <https://sielc.com/hplc-determination-of-uracil-thymine-hypoxanthine-guanine>