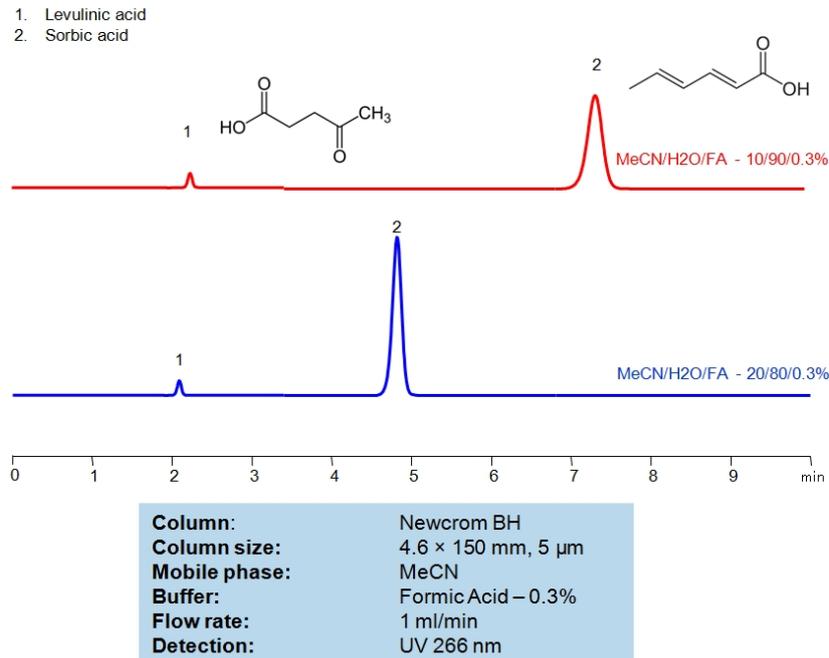


HPLC Separation of Levulinic acid and Sorbic Acid on Newcrom BH Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Levulinic acid , Sorbic acid .

Levulinic acid is used as a precursor for a wide variety of compounds and is used extensively in pharmaceuticals and cosmetics industries. Despite that, when ingested, it can be harmful. It has the chemical formula C₅H₈O₃ .

Sorbic acid is used as a preservative in food, drinks, and cosmetics. It works through inhibiting the growth of molds, yeasts, and some bacteria. While it is considered safe, studies have connected it to hyperactivity in children when mixed with other additives. It has the chemical formula C₆H₈O₂ .

The two acids can be separated in HPLC using Newcrom BH mixed-mode column using a mobile phase of acetonitrile (ACN) and water and either phosphoric acid (H₃PO₄) or formic acid (FA) as buffer allowing the the use of either UV or MS detector.

Method Parameters

Column	Newcrom BH, 4.6 x 150 mm, 5 μm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O
Buffer	H ₃ PO ₄ , Formic Acid
Flow Rate	1.0 mL/min
Detection	UV 210, 266 nm

Quelle: <https://sielc.com/hplc-separation-of-levulinic-acid-and-sorbic-acid>