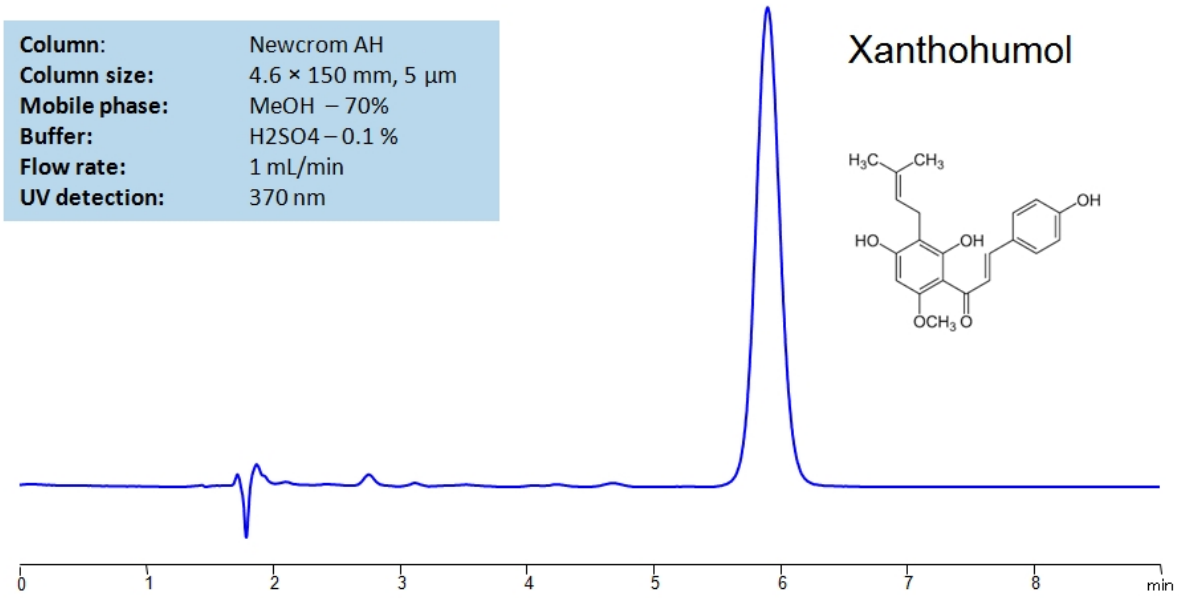
HPLC Determination of Xanthohumol on Newcrom AH Column



Xanthohumol (XN) is a flavonoid compound found in beer that contributes to its flavor and bitterness. There have also been interest in flavonoids and their possible medical applications. Studies have shown that it has anticancer activity and the ability to lower cholesterol and blood sugar. XN can be retained in HPLC on a Newcrom AH mixed-mode column with a mobile phase of acetonitrile (ACN) and water with sulfuric acid (H2SO4) as buffer and UV detected at 370 nm.

The Newcrom columns are a family of reverse-phase-based columns. Newcrom A , AH , B , and BH are all mixed-mode columns with either positive or negative ion-pairing groups attached to either short (25 Å) or long (100 Å) ligand chains. Newcrom R1 is a special reverse-phase column with low silanol activity.

Method Parameters

Column	Newcrom AH, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeOH/H2O – 70/30%
Buffer	H2SO4 – 0.1%
Flow Rate	1.0 mL/min
Detection	UV 370 nm

Quelle: https://sielc.com/hplc-determination-of-xanthohumol-on-newcrom-ah-column

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