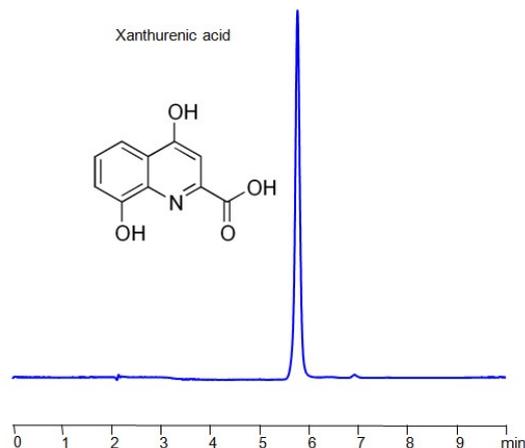


## HPLC Method for Analysis of Xanthurenic acid on Newcrom BH Column



<b>Column:</b>	Newcrom BH
<b>Column size:</b>	4.6 × 150 mm, 5 µm, 100Å
<b>Column part number:</b>	NBH-46.150.0510
<b>Mobile phase:</b>	Gradient MeCN – 10-60%, 10 min
<b>Buffer:</b>	H2SO4 – 0.2%
<b>Flow rate:</b>	1.0 mL/min
<b>Detection:</b>	UV 250 nm

Separation type: Liquid Chromatography Mixed-mode

Xanthurenic acid is a compound associated with tryptophan metabolism and is known to be excreted in the urine. It is a non-essential, non-proteinogenic amino acid derivative and is considered to be a metabolite of tryptophan. Here are some key points about xanthurenic acid:

Xanthurenic acid is characterized by the presence of two hydroxy groups and a carboxylic acid group. Structurally, it is composed of a bicyclic ring system that incorporates a benzene ring and a pyridine ring (with a nitrogen atom). The benzene ring is substituted with two hydroxy groups at positions 4 and 8, and the pyridine ring carries a carboxylic acid functionality.

Xanthurenic acid can be retained and analyzed on a mixed-mode Newcrom BH column with a mobile phase consisting of water, Acetonitrile (MeCN), and sulfuric acid. This analytical method can detect compounds with high resolution and peak symmetry using UV detection at 200 nm

### Method Parameters

<b>Column</b>	Newcrom BH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	Gradient MeCN – 10-60%, 10 min
<b>Buffer</b>	H2SO4 – 0.2%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	250 nm

Quelle: <https://sielc.com/hplc-determination-of-xanthurenic-acid>