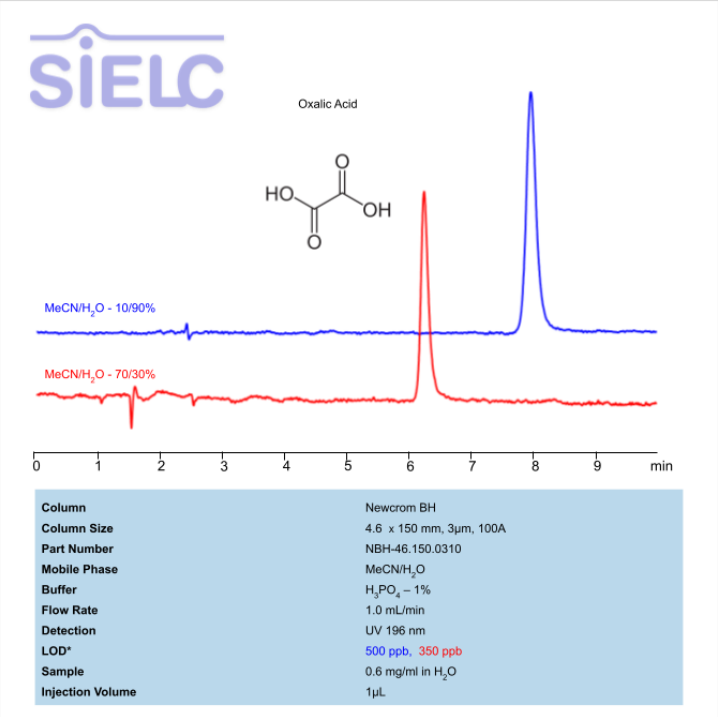
## HPLC Method for Analysis of Oxalic Acid on Newcrom BH Column




High Performance Liquid Chromatography (HPLC) Method for Analysis of Oxalic Acid .

Oxalic Acid is an organic acid with the chemical formula C2H2O4 . It is considered the simplest dicarboxylic acid, with it's name being derrived from the genus of the plant from which it was isolated, Oxalis. It is primarily used as a bleaching agent in cleaning solutions, rust removal, and teeth whitening. Oxalic acid has an oral lowest published lethal dose of 600 mg/kg. You can find detailed UV spectra of Oxalic Acid and information about its various lambda maxima by visiting the following link.

Multi-charged molecules, such as oxaloacetate and oxalate, generally have a tendency to exhibit poor peak shape on reverse-phase HPLC columns, where they show significant tailing. Oxalic Acid can be retained with great peak shape on a Newcrom BH mixed-mode column. Oxalic acid can be measured at low UV. Using a Newcrom BH mixed-mode column and a mobile phase consisting of acetonitrile (ACN) and water with sulfuric acid (H2SO4) buffer, oxaloacetic acid and oxalic acid can be retained, separated, and UV detected at 200 nm with precise resolution.

### Method Parameters

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|---|---|
| **Column** | Newcrom BH, 4.6 x 150 mm, 3 µm, 100 Å, dual ended |
| **Mobile Phase** | MeCN/H2O |
| **Buffer** | H3PO4- 1% |
| **Flow Rate** | 1.0 mL/min |
| **Detection** | UV, 196 nm |

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Quelle: https://sielc.com/hplc-method-for-oxalic-acid-h3po4

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