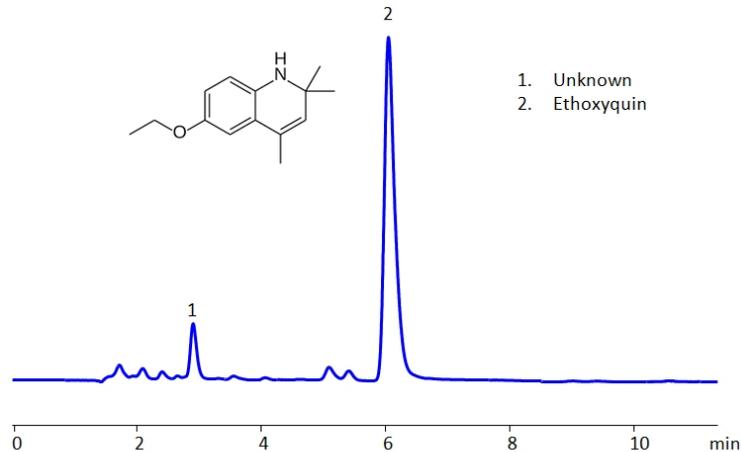


HPLC Method For Analysis Of Ethoxyquin on Newcrom R1 Column



| | |
|----------------------------|--------------------------------|
| Column: | Newcrom R1 |
| Column size: | 2.1 × 150 mm, 3 µm |
| Column part number: | NR1-21.150.0310 |
| Mobile phase: | MeCN/H ₂ O – 70/30% |
| Buffer: | AmFm pH 3.0 – 10 mM |
| Flow rate: | 0.2 mL/min |
| UV Detection: | 275 nm |

High Performance Liquid Chromatography (HPLC) Method for Analysis of Ethoxyquin

Ethoxyquin is an antioxidant. It was developed in the 1950s as a preservative to control the breakdown of fats in dry pet food or the formation of peroxide in canned pet foods. Ethoxyquin is also used as an insecticide, herbicide, fungicide, post-harvest dip to prevent scald on apples and pears, plant growth regulator, and anti-degradation agent for rubber.

Ethoxyquin can be retained in HPLC on Newcrom R1 reverse-phase column using an isocratic analytical method with a simple mobile phase of water, acetonitrile (MeCN, ACN), and Ammonium Formate (AmFm) buffer. Detection can be achieved with mass spectrometry (MS), evaporative light scattering detection (ELSD), charged aerosol detection (CAD) and UV detected at 275 nm.

Method Parameters

| | |
|---------------------|---|
| Column | Newcrom R1, 2.1 x 150 mm, 3 µm, 100 Å, dual ended |
| Mobile Phase | MeCN/H ₂ O – 70/30% |
| Buffer | AmFm pH 3.0 – 10 mM |
| Flow Rate | 0.2 mL/min |
| Detection | UV, 275 nm |

Quelle: <https://sielc.com/hplc-method-for-analysis-of-ethoxyquin-2>