

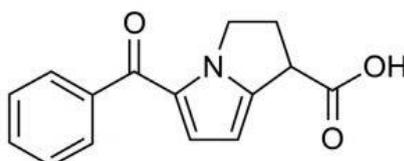
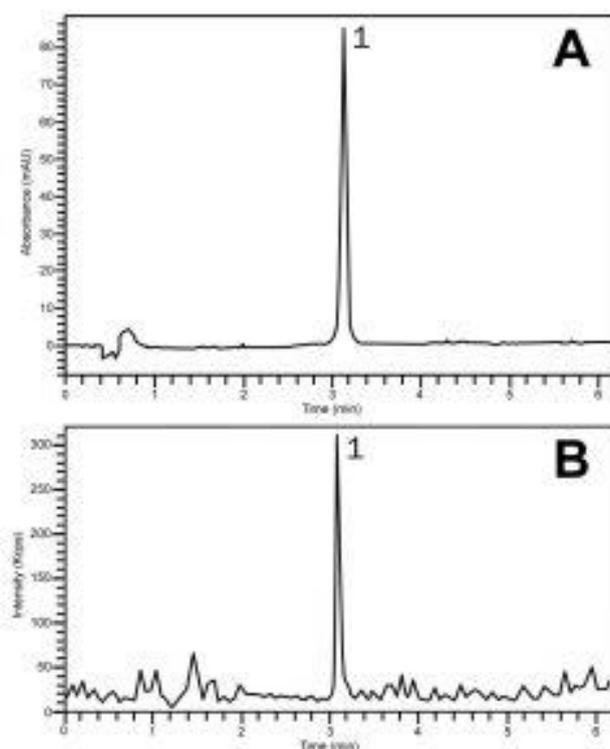
Ketorolac Separation with LCMS - AppNote

Analgesic Agent Analyzed in Tablet Form

Click [HERE](#) for Column Ordering Information.

There is a need for analysis of the Active Pharmaceutical Ingredient (API) in Ketorolac Tablet formulations in order to evaluate two different extraction protocols. The use of Ethanol as the extraction solvent was explored initially but DI Water was observed to produce superior extraction efficiency.

The chromatograms show how the compound can be retained and detected using either UV-based detection (Fig. A) or Mass Spectrometry (Fig. B). The conditions may be applied to the routine assay analyses of Ketorolac Tablet formulations.



Peak:

Ketorolac 256.2 m/z [M+H]⁺

Method Conditions

Column: Cogent Phenyl Hydride™, 4 µm, 100Å

Catalog No.: [69020-10P-2](#)

Dimensions: 2.1 x 100 mm

Solvents:

A: DI Water/ 0.1% Formic Acid (v/v)

B: Acetonitrile / 0.1% Formic Acid (v/v)

Gradient:

Time (minutes)	%B
0	20
5	80
10	80
11	20

Injection vol.: 1 µL

Flow rate: 0.5 mL / minute

Detection:

Fig. A: UV 320 nm

Fig. B: ESI-POS- Mass Spec

Sample: Ground Ketorolac Tablet was extracted with DI Water (1 mg / mL powder concentration) and gravity filtered. Sample was then filtered through a 0.45 µm Syringe filter for HPLC analysis.



Attachment No 362 Ketorolac by HPLC and LCMS pdf 0.2 Mb [Download File](#)

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