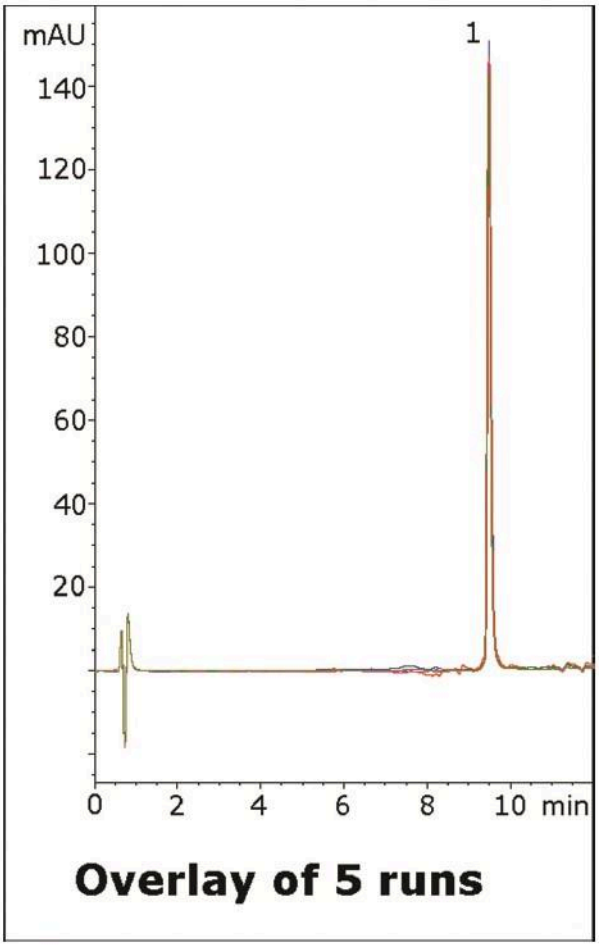
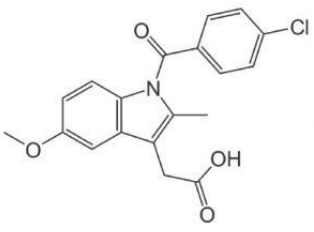
Indomethacin Capsule Analyzed with HPLC - AppNote

Simple Assay Method

This method for analysis of Indomethacin capsules is easy to perform and uses an LC-MS compatible Mobile Phase. The API peak that was obtained shows excellent efficiency and the data is very reproducible, as illustrated by the overlay of five runs shown in the figure.





Peak:

Indomethacin

Method Conditions

Column: Cogent Bidentate C18 2.o, 2.2µm, 120Å
Catalog No.: 40218-05P-2
Dimensions: 2.1 x 50 mm
Mobile Phase:

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

Time *(minutes)*	%B
0	10
1	10
9	70
10	70
11	10

Post Time: 5 minutes
Injection vol.: 1µL
Flow rate: 0.3mL / minute
Detection: UV @ 240nm
Sample: Indomethacin capsule contents were added to a 25mL volumetric flask. A portion of 50/50 Solvent A /Solvent B was added and it was sonicated for 10 minutes. It was then diluted to mark with the diluent and mixed. Then it was filtered with a 0.45µm Nylon Syringe Filter (MICROSOLV Tech Corp.).
t_0: 0.6 minutes

Note: *Indomethacin is an NSAID used for its anti-inflammatory, analgesic, and antipyretic activity to treat a variety of conditions. It acts by inhibition of Prostaglandin synthesis. It is a prescription drug sold under many brand names.*

COGENT HPLC Columns™

Attachment

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