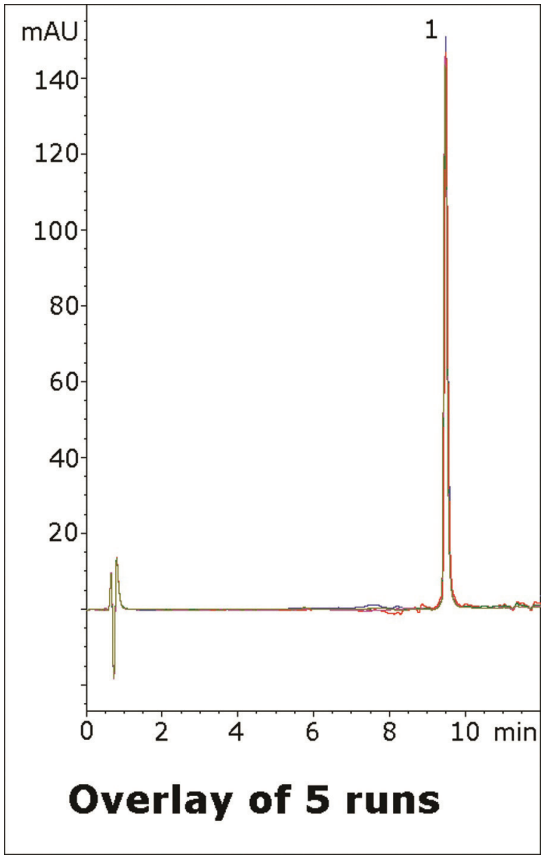
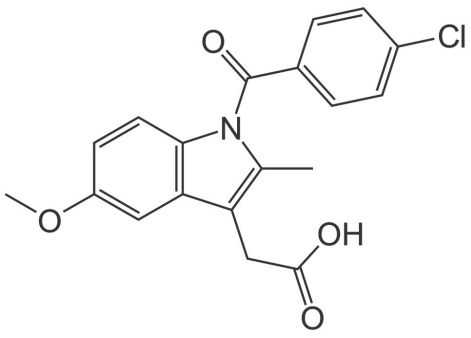
Indomethacin Capsule

Simple assay method using 2.ō™ stationary phase





Indomethacin

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.

Method Conditions

Column: **Cogent Bidentate C18 2.ō**, 2.2µm, 120Å

Catalog No.: 40218-05P-2

Dimensions: 2.1 x 50 mm

Mobile Phase: A: DI H_2O / 0.1% formic acid (v/v)
B: Acetonitrile / 0.1% formic acid (v/v)

Gradient:

time (min.)	%B
0	10
1	10
9	70
10	70
11	10

Post Time: 5 min

Injection vol.: 1µL

Flow rate: 0.3mL/min

Detection: UV 240nm (Perkin-Elmer instrument)

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 min. It was then diluted to mark with the diluent and mixed. Then it was filtered with a 0.45µm nylon membrane filter (MicroSolv Tech Corp.).

Peak: 1. Indomethacin

t_0: 0.6 min

Discussion

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 due to the small particle size of the Bidentate C18 2.o stationary phase. The data is very reproducible as well, illustrated by the overlay of five runs shown in the figure.

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