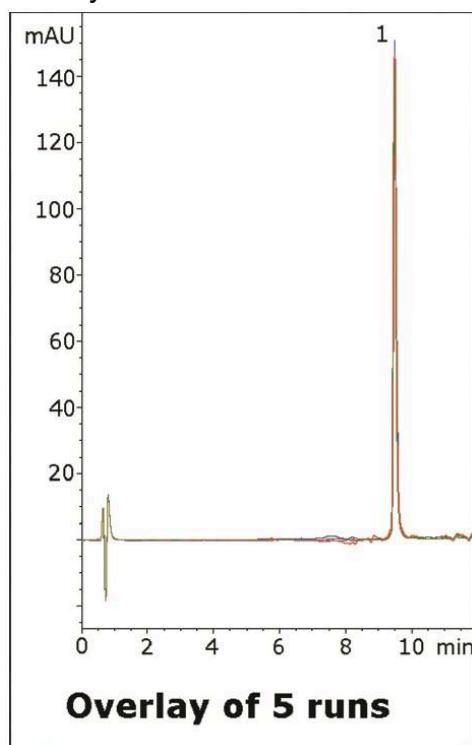




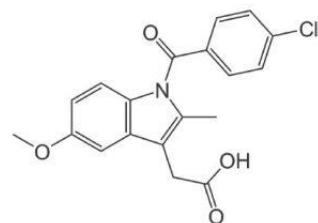
## Indomethacin Capsule Analyzed with HPLC - AppNote

### 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.



**Overlay of 5 runs**



#### Peak:

Indomethacin

### Method Conditions

**Column:** Cogent Bidentate C18 2.0, 2.2 $\mu$ m, 120 $\text{\AA}$

**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.:** 1 $\mu$ L

**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 0.45 $\mu$ m Nylon Syringe Filter (MICROSOLV Tech Corp.).

**t<sub>0</sub>:** 0.6 minutes

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**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.

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**Attachment No 288 Indomethacin Capsule pdf** 0.4 Mb [Download File](#)

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