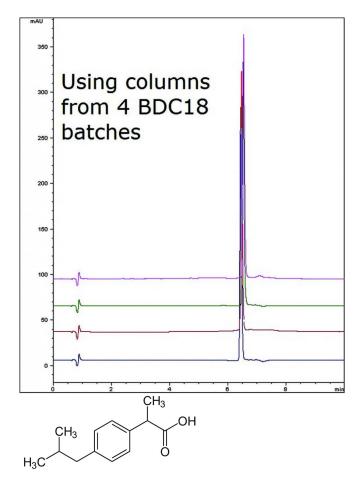
MICROS

Ibuprofen Assay Method Reproducibility with HPLC – AppNote

Extremely Precise, Assay Method

This Assay Method for a common Ibuprofen formulation demonstrates Reproducibility and Robustness as the Figure below shows an overlay of four Chromatograms with different Columns lots (% RSD < 1).

An important aspect of Column Selection for a Method is that the Retention behavior is consistent across numerous manufacturing batches. This is especially crucial once a Method has been validated and is in routine use.



Peak:

Ibuprofen

Method Conditions

Column: Cogent Bidentate C18™, (BDC18), 4µm, 100Å
Catalog No.: 40018-75P
Dimensions: 4.6 x 75mm
Mobile Phase:

A: DI Water with 0.1% Formic Acid

Printed from the Chrom Resource Center Copyright 2024, All Rights Apply **MicroSolv Technology Corporation** 9158 Industrial Blvd. NE, Leland, NC 28451 tel. (732) 380-8900, fax (910) 769-9435 Email: customers@mtc-usa.com Website: www.mtc-usa.com



B: Acetonitrile with 0.1% Formic Acid

Gradient:

Time (minutes)	%B
0	30
2	30
6	70
7	30

Post Time: 3 minutes

Injection vol.: 10µL

Flow rate: 1.0mL / minute

Detection: UV @ 254nm

Sample Preparation: 200mg strength Advil® tablet was ground and added to a 50mL volumetric flask with a diluent of 1:1 Solvent A / Solvent B. It was sonicated 10 minutes and diluted to mark. Then a portion was filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.).

to: 0.9 minutes

Note: Ibuprofen is a nonsteroidal anti inflammatory drug (NSAID) commonly used for its analgesic effects. It is marketed under a variety of trade names such as Advil and Motrin®. In addition, it is often included in combination formulations as well.



Attachment

No 195 Ibuprofen Analyzed with HPLC pdf 0.3 Mb Download File

Printed from the Chrom Resource Center Copyright 2024, All Rights Apply **MicroSolv Technology Corporation** 9158 Industrial Blvd. NE, Leland, NC 28451 tel. (732) 380-8900, fax (910) 769-9435 Email: customers@mtc-usa.com Website: www.mtc-usa.com