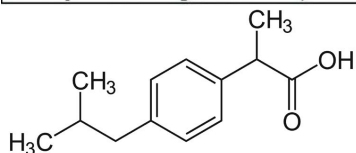
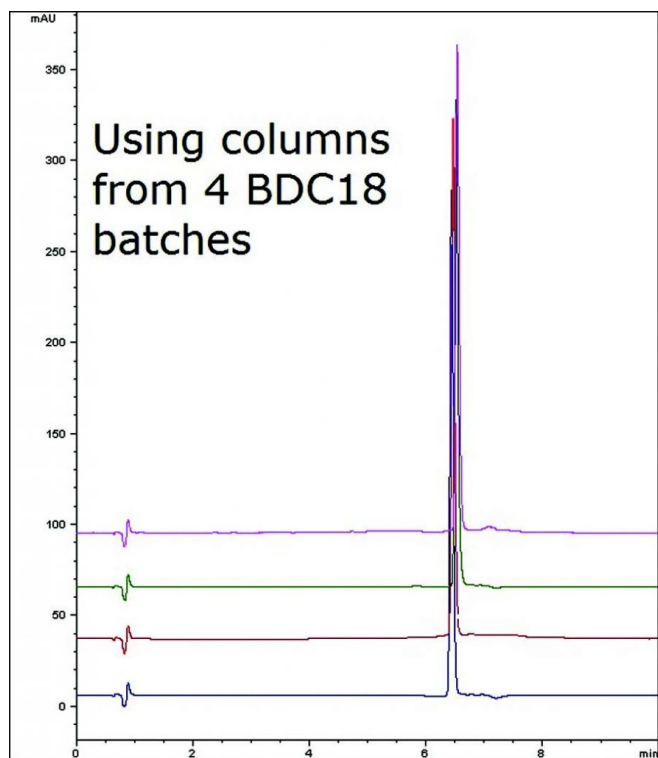


Extremely Precise, Assay Method

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

B: Acetonitrile with 0.1% Formic Acid

Gradient:

Time (minutes)	%B
0	30
2	30

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Email: customers@mtc-usa.com

Website: www.mtc-usa.com

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.).

t₀: 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](#)

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