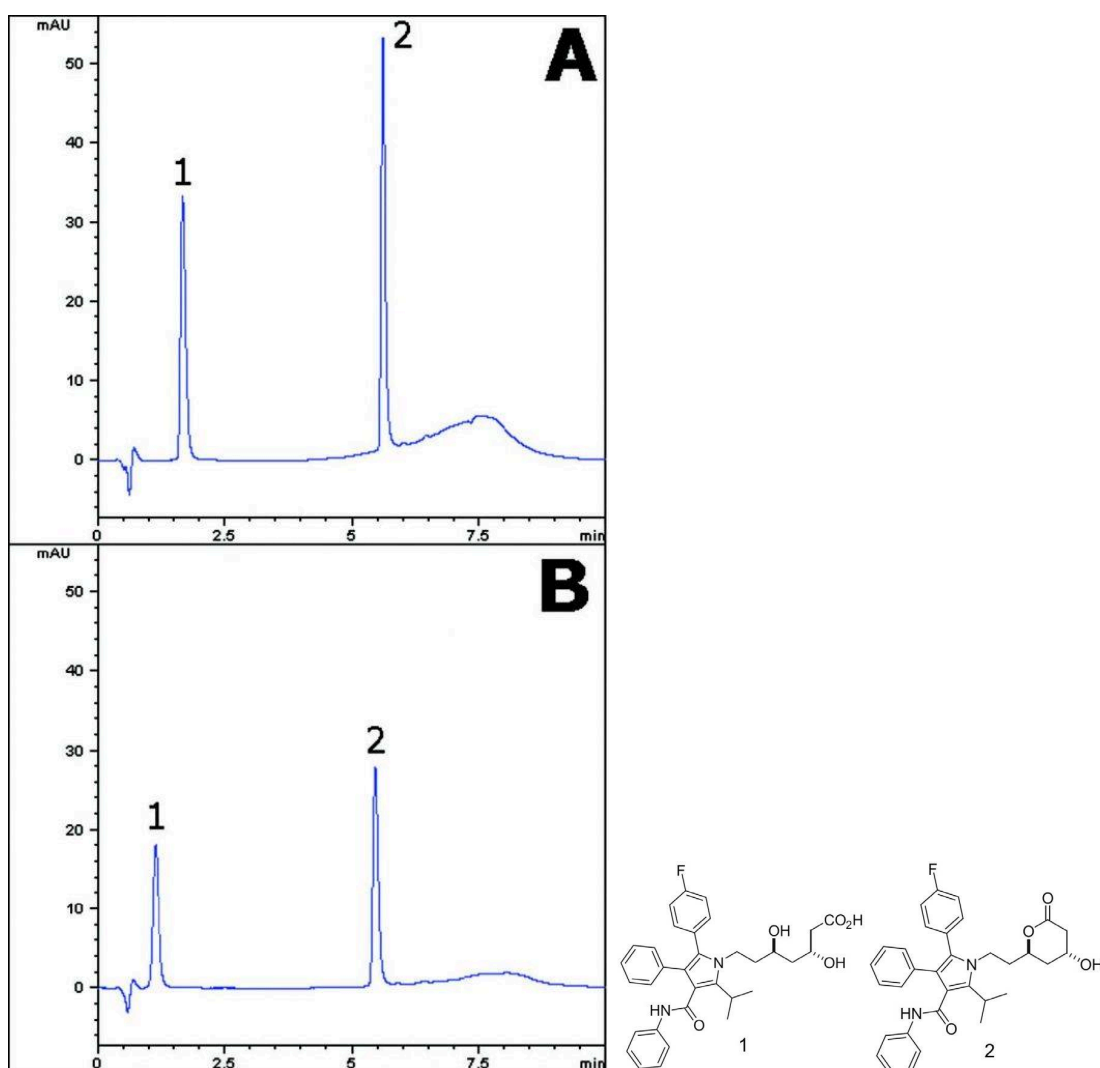


## Atorvastatin HPLC Method Transfer to UHPLC - AppNote

### Transfer to "near-UHPLC" 2.2µm Column, for the API Atorvastatin

This Application Note demonstrates how data obtained on a 4µm Cogent Bidentate C18 Column (*Figure B*) can be adapted for a 2.2µm Column (*Figure A*). The retention times of both analytes are very comparable in each figure. This Method produces excellent Separation of the API and its main acid degradant and is LCMS compatible which can be used in clinical applications involving plasma samples.



#### Peaks:

1. Atorvastatin
2. Atorvastatin Lactone

### Method Conditions

#### Columns:

Figure A: Cogent Bidentate C18 2.0™, 2.2µm, 120Å

Figure B: Cogent Bidentate C18™, 4µm, 100Å

**Catalog Nos.:**Figure A: [40218-05P-2](#)Figure B: [40018-05P-2](#)**Column Dimensions:** 2.1 x 50mm**Mobile Phases:**

A: DI Water / 10mM Ammonium Acetate

B: 90:10 Acetonitrile / DI Water / 10mM Ammonium Acetate

**Gradients:**

Time (minutes)	%B
0	40
1	100
6	100
7	40

**Flow rates:** 0.3mL / minute**Detection:** UV @ 248nm

**Sample Preparation:** 40mg strength Lipitor® tablet (Atorvastatin) was ground and added to a 50mL volumetric flask with a portion of Solvent B diluent. The solution was sonicated 10 minutes and diluted to mark with Solvent B. It was then filtered through a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.). The filtrate was diluted 4x in a diluent of 50:50 Solvent B / 1N HCL. It was heated in a dry bath for 10 minutes at 85°C.

**Attachment****No 308 Atorvastatin HPLC Method Transfer to UHPLC pdf** 0.4 Mb [Download File](#)

Printed from the Chrom Resource Center

Copyright 2025, 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](mailto:customers@mtc-usa.com)Website: [www.mtc-usa.com](http://www.mtc-usa.com)