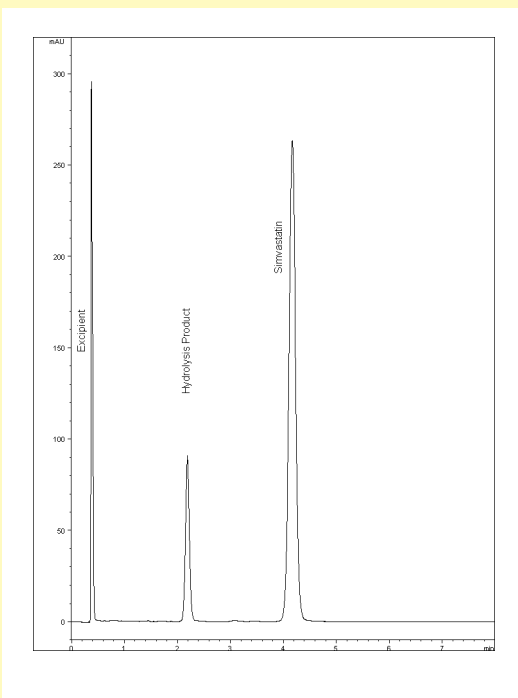
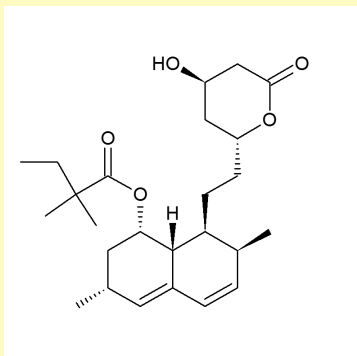


## Simvastatin: Excipient & Related

### Excellent Peak Shape and Resolution



#### Method Conditions

**Column:** Cogent Bidentate C18™, 4µm, 100Å  
**Catalog No.:** 40018-75P  
**Dimensions:** 4.6 x 75 mm  
**Mobile phase:** 60:40 Acetonitrile:DI Water  
 + 10mM Sodium Phosphate  
**Flow rate:** 1.5 mL/min.  
**Peaks:**  
 1. Excipient  
 2. Hydrolysis Product  
 3. Simvastatin  
**Injection Volume:** 10 µL  
**Detection:** UV 238 nm  
**Temperature:** 30°C

#### Discussion

This method is easy to prepare, use and reproduce. Note excellent peak shape and resolution for Simvastatin from its hydrolysis products and tablet excipients. Separation of a degraded Simvastatin tablet, on a Type C Bidentate C18. USP Tailing Factor is 1.02 for Simvastatin.

For more information visit [www.MTC-USA.com](http://www.MTC-USA.com)

**Note:** Simvastatin is marketed under the trade names Zocor, Simvastatin, Simlup, Simcard and others. It is a hypolipidemic drug belonging to the class of pharmaceuticals called "statins". It is used to control hypercholesterolemia (elevated cholesterol levels) and to prevent cardiovascular disease. Simvastatin is a synthetic derivative of a fermentation product of *Aspergillus terreus*.

Cat. No.	Description
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40018-75P	Cogent Bidentate C18™ HPLC Column, 4mm, 100A, 4.6mm x 75mm
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