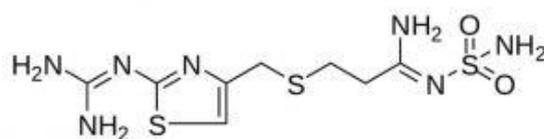
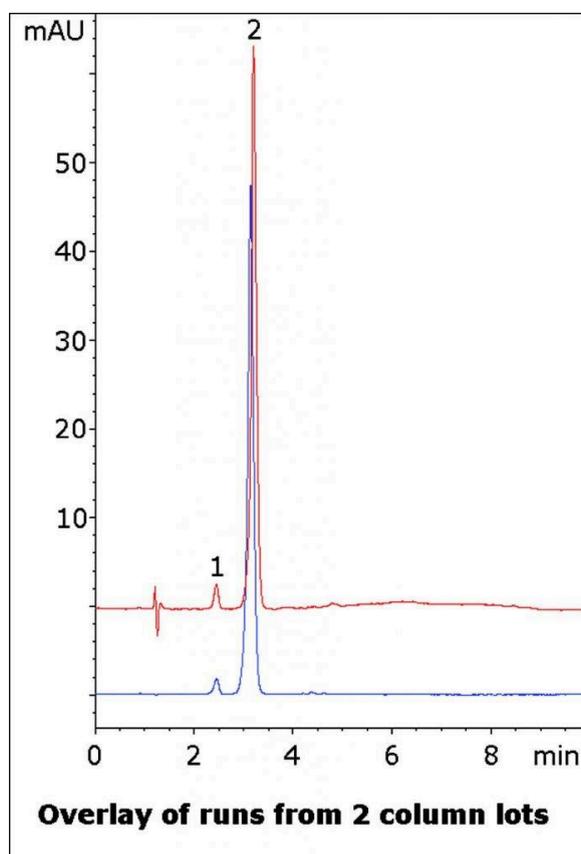


## Famotidine Tablet Analyzed with HPLC - AppNote

### API Separation from Matrix Component

This Method for Analysis of Famotidine Tablets is easy to perform and produces a Symmetrical Peak Shape for the API. This compound has numerous amines which can be problematic in terms of Peak Shape with conventional Columns. Separation from a component from the tablet extract matrix is obtained as well, illustrating specificity of the Method.

Reproducibility is shown by the overlay of runs from two different Column lots.



### Peaks:

1. Matrix Component, 2. Famotidine

### Method Conditions

**Column:** Cogent Diamond Hydride™, 4 μm, 100Å

**Catalog No.:** 70000-7.5P  
**Dimensions:** 4.6 x 75 mm

**Mobile Phase:**

A: DI Water with 0.1% Trifluoroacetic Acid (TFA) v/v  
B: Acetonitrile with 0.1% Trifluoroacetic Acid (TFA) v/v

**Gradient:**

Time (minutes)	%B
0	95
2	95
6	50
7	95

**Post Time:** 3 minutes

**Injection vol.:** 1 µL

**Flow rate:** 1.0 mL / minute

**Detection:** UV @ 265 nm

**Sample Preparation:** 10 mg strength Famotidine tablet was ground and added to a 25 mL volumetric flask. A portion of 50:50 Solvent A / Solvent B diluent was added and the flask was sonicated 10 minutes. It was then diluted to mark and filtered with a 0.45 µm Nylon Syringe Filter (MICROSOLV Tech Corp.).

**t<sub>o</sub> :** 0.9 minutes



**Attachment No 221 Famotidine Tablet Analyzed with HPLC 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)