

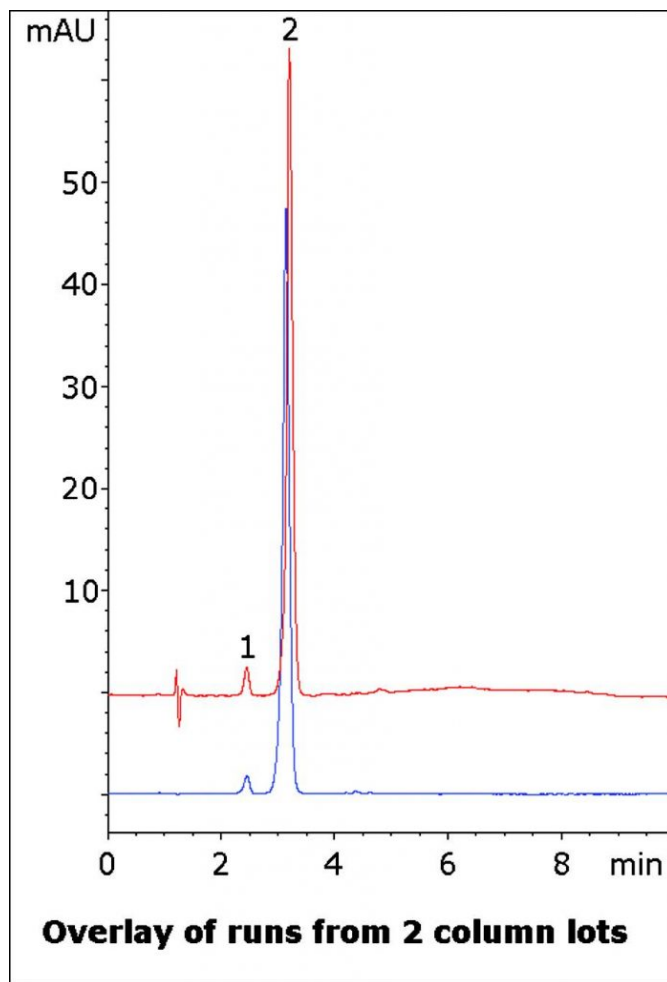


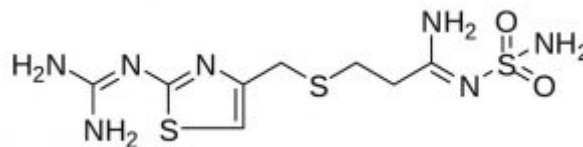
## Famotidine Tablet Analyzed with HPLC - AppNote

### **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™, 4µm, 100Å

**Catalog No.:** 70000-7.5P

**Dimensions:** 4.6 x 75mm

**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 $\mu$ L

**Flow rate:** 1.0mL / minute

**Detection:** UV @ 265nm

**Sample Preparation:** 10mg strength Famotidine tablet was ground and added to a 25mL 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 $\mu$ m Nylon Syringe Filter (MicroSolv Tech Corp.).

**t<sub>0</sub>:** 0.9 minutes



## Attachment

**No 221 Famotidine Tablet Analyzed with HPLC pdf** 0.4 Mb [Download File](#)