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HPLC Columns and Chromatography Accessories

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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.

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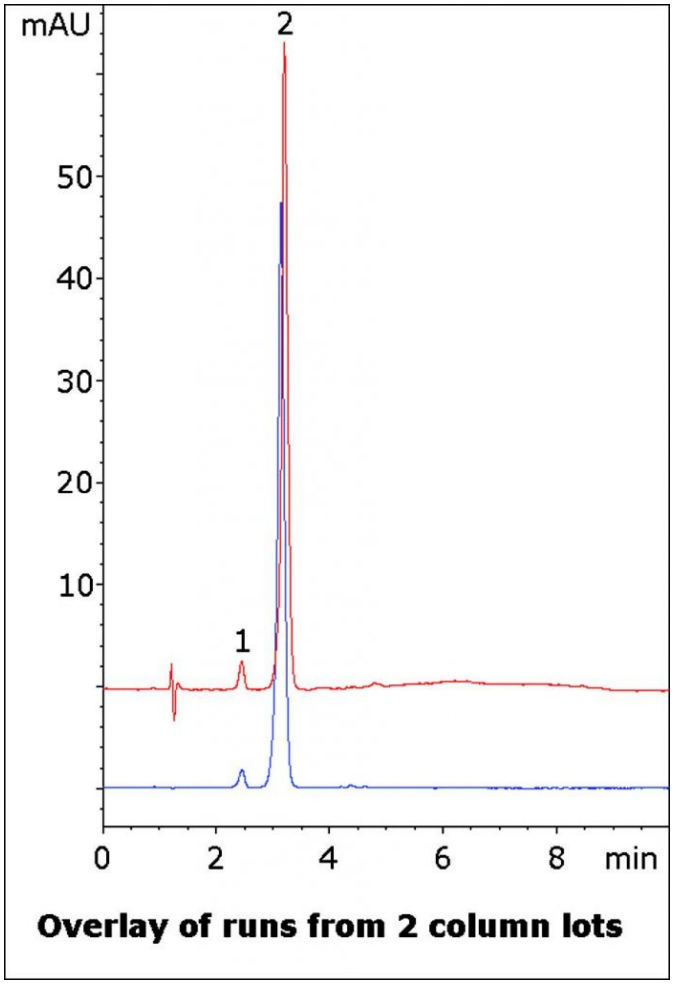

Overlay of runs from 2 column lots

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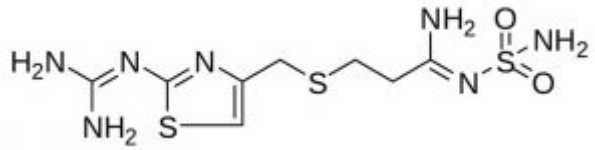

Peaks:

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.: 1µL
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 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.).
t_0: 0.9 minutes

COGENT HPLC Columns™

Attachment

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