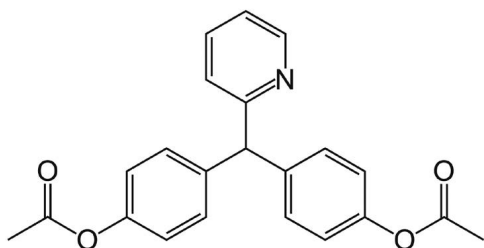
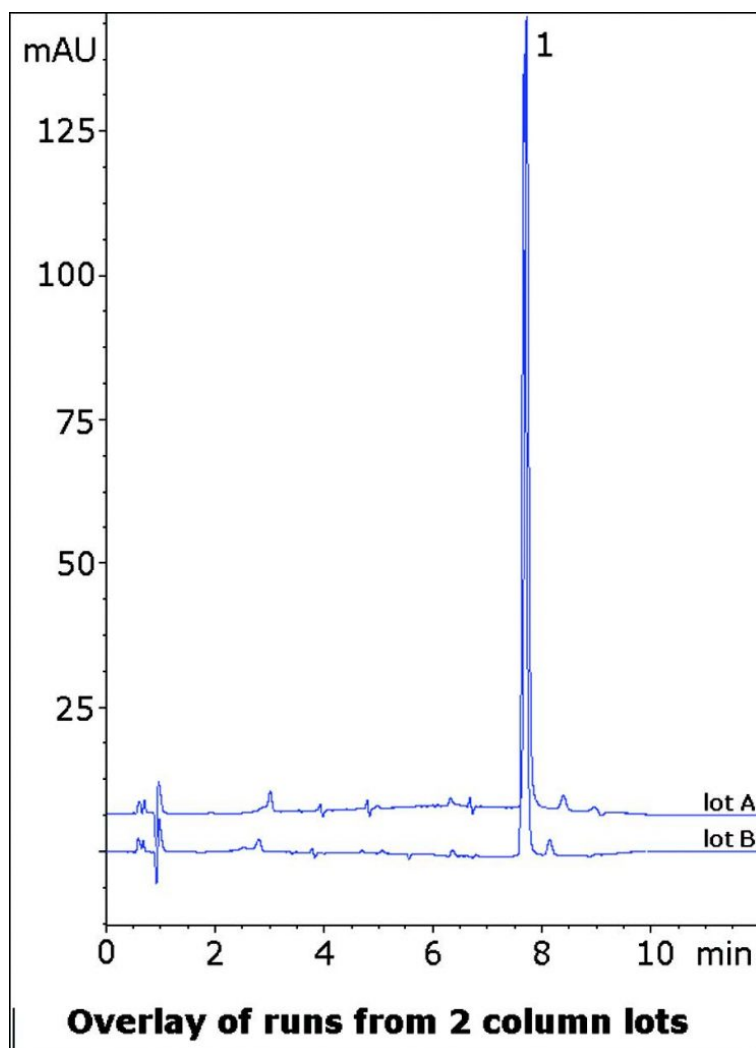


Separation of API from Matrix Peaks from an Over The Counter Tablet

This Method for Analysis of a Bisacodyl Tablet formulation Separates the API from several small matrix Peaks. These Peaks must be Resolved from the main Peak in order to ensure accurate Quantitation. The data below illustrates the separation potential of the this Method for Assay or Impurity Methods. Ammonium Acetate was used in the Mobile Phase and extraction Solvent to avoid any acid-catalyzed hydrolysis of the Bisacodyl ester groups.

Runs from two Column lots are shown demonstrating consistency and Robustness of this Method.



Peak:
Bisacodyl

Method Conditions

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Column: Cogent Bidentate C18™, 4µm, 100Å

Catalog No.: 40018-75P

Dimensions: 4.6 x 75mm

Mobile Phase:

A: DI Water with 10mM Ammonium Acetate

B: 95:5 Acetonitrile / Solvent A (v/v)

Gradient:

Time (minutes)	%B
0	20
1	20
6	60
8	60
9	20

Post Time: 3 minutes

Injection vol.: 2µL

Flow rate: 1.0mL / minute

Detection: UV @ 254nm

Sample Preparation: 5mg strength Bisacodyl Tablet was ground and added to a 10mL volumetric flask containing a portion of Solvent B. It was then sonicated 10 minutes and diluted to mark. After mixing, a portion was filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.).

t₀: 0.9 minutes

Note: Bisacodyl is a stimulant laxative used in many common over-the-counter formulations. Brand names include Dulcogen®, Alophen®, and Dulcolax®.



Attachment

No 227 Bisacodyl Tablet Analyzed with HPLC pdf 0.3 Mb [Download File](#)

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