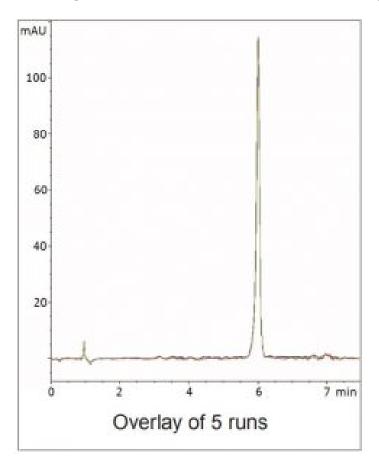


Retention of a Highly Polar Antibiotic

As a highly polar compound, Vancomycin is difficult to retain with Reversed Phase Methods. In this Method the compound retains very well as illustrated in the Figure. In addition, the repeatability of the analysis, which is demonstrated by the overlay of five consecutive runs, is excellent. The Mobile Phase used is LCMS compatible and the low equilibration time after the Gradient allows for a rapid and Robust Analysis.



Vancomycin

Method Conditions

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

Catalog No.: 70000-7.5P

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MicroSolv Technology Corporation

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Email: customers@mtc-usa.com

Website: www.mtc-usa.com



Dimensions: 4.6 x 75mm

Mobile Phase:

A: DI Water / 0.1% Formic Acid B: Acetonitrile / 0.1% Formic Acid

Gradient:

Time (minutes)	%B
0	70
6	10
7	70

Post Time: 2 minutes
Injection vol.: 5µL

Flow rate: 1.0mL / minute Detection: UV @ 210nm

 $\textbf{Sample Preparation:} \ \ \textbf{Stock Solution:} \ \ \textbf{1mg / mL Vancomycin HCl in 50:50 Solvent A / Solvent B diluent.} \ \ \textbf{The solution:} \ \ \textbf{20:50 Solvent A / Solvent B diluent.} \ \ \textbf{20:50 Solvent B diluent.} \ \ \textbf{$

was filtered through a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp).

Working Solution: Stock solution was diluted 1:100 with 50:50 Solvent A / Solvent B mixture.

to: 0.9 minutes

Note: Vancomycin is a glycosylated nonribosomal peptide antibiotic used to treat Colitis. Vancomycin is often used as a drug of last resort when other antibiotics are rendered ineffective due to developed resistance of bacteria. It is a natural product isolated from Amycolatopsis Orientalis.



Attachment

No 159 Vancomycin Analyzed with HPLC pdf 0.6 Mb Download File

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