

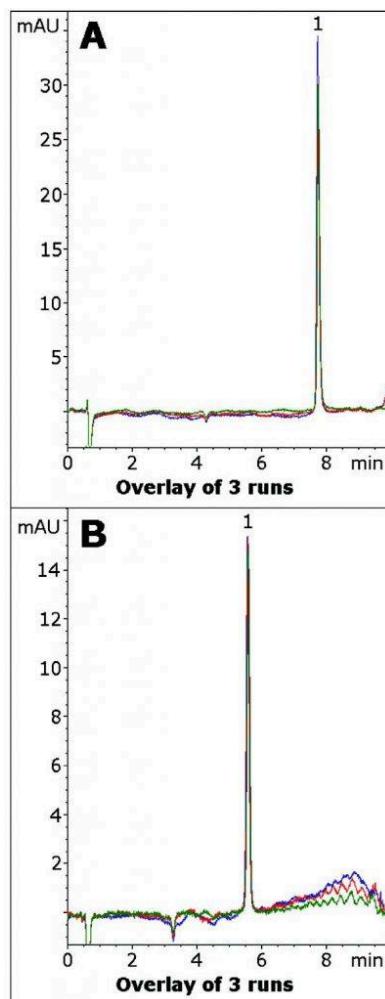


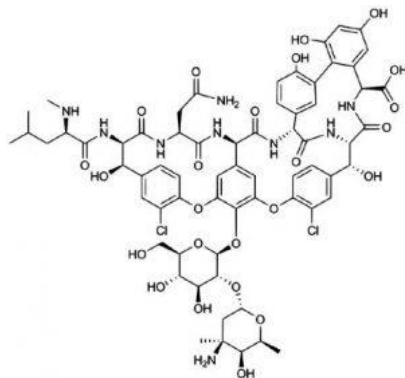
## Vancomycin HPLC Method Transferred to Near UHPLC - AppNote

### Benefits of using 2.2 $\mu$ m column for Vancomycin analysis

The highly polar antibiotic Vancomycin can be readily analyzed with either the standard 4 $\mu$ m Cogent Diamond Hydride or the Cogent Diamond Hydride 2.0 column. Notably higher efficiency is obtained on the smaller particle size column.

This Method is easy to perform and is LCMS compatible. Three runs were performed on each column in order to demonstrate consistency and show the benefits of using the smaller particle column.





## Peak:

## Vancomycin

## Method Conditions

## Columns:

Fig. A: Cogent Diamond Hydride 2.0™, 2.2µm, 120Å

Fig. B: Cogent Diamond Hydride™, 4µm, 100Å

## Catalog Nos.:

Fig. A: 70200-05P-2;

Fig. B: 70000-05P-3

## Dimensions:

Fig. A: 2.1 x 50 mm

Fig. B: 3.0 x 50 mm

## Mobile Phase:

A: DI Water / 0.1% Formic Acid (v/v)

B: Acetonitrile / 0.1% Formic Acid (v/v)

Time (minutes)	%B
0	70
0.4	70
7.4	10
8.4	70

**Post time: 5 minutes**

**Injection vol.: 0.2  $\mu$ L**

## Flow rate:

Fig. A: 0.29 mL / minutes

Fig. B: 0.50 mL / minutes

**Detection:** UV @ 210 nm

### Sample:

**Stock Solution:** 1 mg / mL Vancomycin HCl in 50 / 50 solvent A / solvent B diluent. The solution 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.

time: 0.4 minutes

**Note:** Vancomycin is a glycosylated non-ribosomal 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.

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