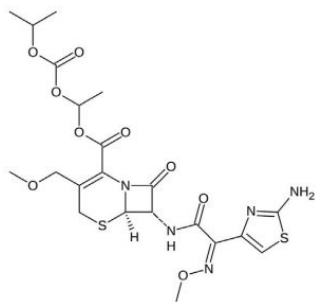
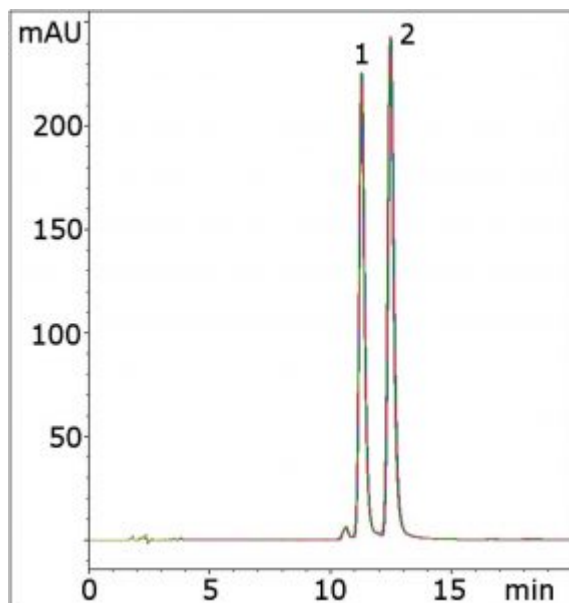


Cefpodoxime Proxetil Analyzed by HPLC – AppNote

USP Assay Method an Antibiotic Prodrug

The USP Assay Method for Cefpodoxime Proxetil specifies a Resolution of not less than 2.5 between the two epimers of the Prodrug. Using this Method, the average Resolution was calculated to be 2.8. In addition, the R-epimer tailing factor must be not more than 1.5 where this Method meets this requirement with a tailing factor of 1.2. Lastly, this Method also shows good Repeatability with a Retention Time %RSD from five runs of 0.2%.



Peaks:

1. Cefpodoxime Proxetil, S-epimer
2. Cefpodoxime Proxetil, R-epimer

Method Conditions

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

Catalog No.: 40018-25P

Dimensions: 4.6 x 250mm

Mobile Phase: 60% 20mM Ammonium Acetate / 40% Acetonitrile

Temperature: 30°C

Injection vol.: 20µL

Flow rate: 1.0mL / minute

Detection: UV @ 235nm

Sample Preparation:

Stock Solution: A 200 mg strength Cefpodoxime Proxetil tablet was ground and added to a 100mL volumetric flask. The flask was diluted to mark with the Mobile Phase and sonicated. A portion was then filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Tech Corp.).

Working Solution: 100µL of the Stock Solution was diluted with 900µL of the Mobile Phase.

t_o: 1.9 minutes

Note: Cefpodoxime Proxetil is the Prodrug of Cefpodoxime, which is formed by hydrolysis of the Prodrug ester bond. Cefpodoxime is a Cephalosporin Antibiotic used to treat conditions such as Acute Otitis Media, Pharyngitis, and Sinusitis. It is marketed by Pfizer as Vantin®, but generic versions are also available.



Attachment

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