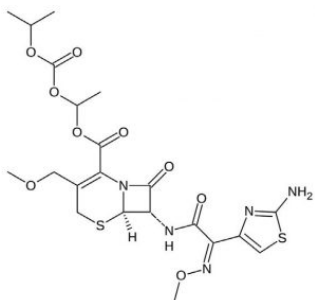
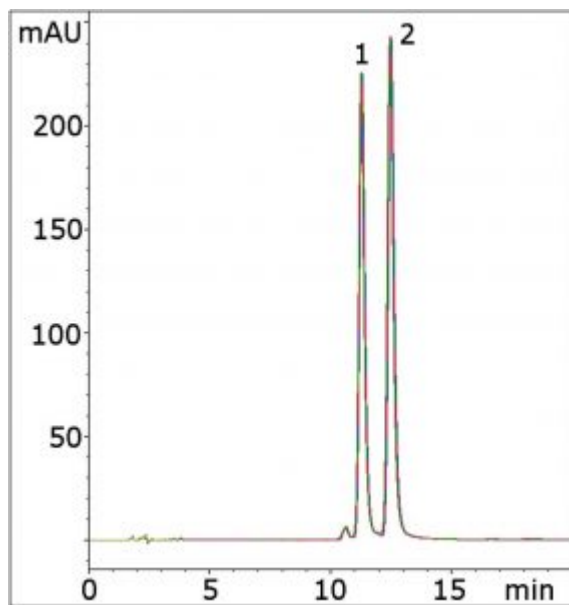




## Cefpodoxime Proxetil Analyzed by HPLC - AppNote

### **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<sub>0</sub>:** 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

**No 149 Cefpodoxime Proxetil Analyzed by HPLC pdf** 0.3 Mb [Download File](#)