

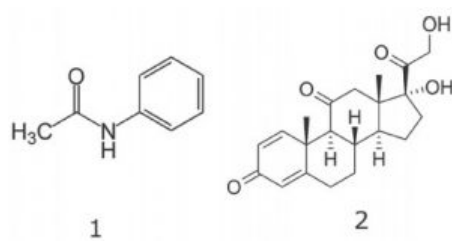
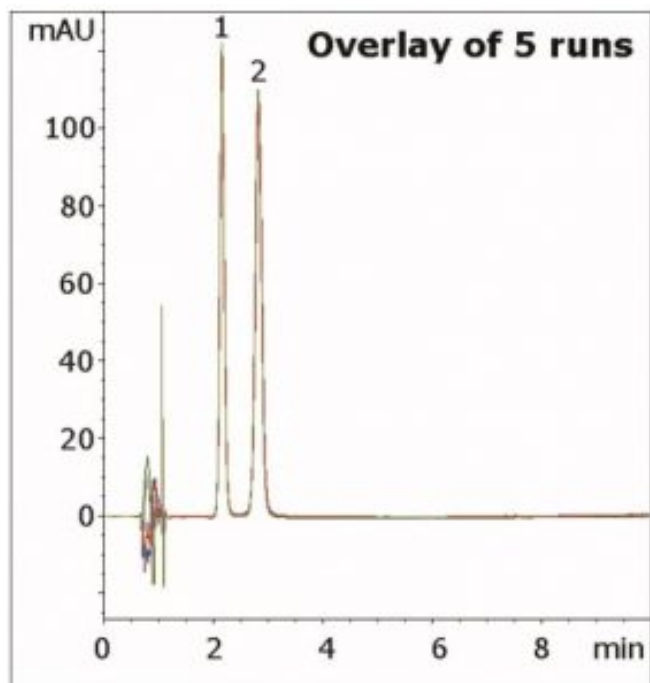


## Prednisone Analyzed with HPLC - AppNote

### **Isocratic Method for Prednisone Tablets**

This Method uses the Mobile Phase specified in the USP Method for Assay of Prednisone tablets. The resolution between the API and the Acetanilide Internal Standard meets the system suitability.

Resolution was found to be superior compared to standard C18 HPLC Columns. In addition, this Method also produces excellent precision under these conditions, as shown in the figure overlay.



Peaks:



1. Acetanilide (Internal Standard)
2. Prednisone (API)

### Method Conditions

**Column:** Cogent Bidentate C8™, 4µm, 100Å

**Catalog No.:** 40008-75P

**Dimensions:** 4.6 x 75mm

**Mobile Phase:** 68.8% DI Water / 25.0% Tetrahydrofuran (THF) / 6.2% Methanol (v/v)

**Injection vol.:** 10µL

**Flow rate:** 1.0mL / minute

**Detection:** UV @ 254nm

**Sample Preparation:** 10mg strength Prednisone tablet was ground and added to a 25mL volumetric flask. It was diluted to mark with Methanol and sonicated 10 minutes. It was then filtered with a 0.45µm Nylon Syringe Filter (MicroSolv Technology Corp.). 110µL of the filtrate and 90µL of a 0.1mg / mL Acetanilide solution were combined and diluted with 800µL Methanol. Peaks were confirmed by individual standards.

**t<sub>0</sub>:** 0.8 minutes

**Note:** Prednisone is used to treat symptoms due to low corticosteroid levels. This encompasses a wide variety of applications such as for Arthritis, severe allergic reactions, Multiple Sclerosis, and Lupus. It is marketed under a variety of trade names, such as Deltasone®, Meticorten®, and Orasone®.

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## Attachment

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