

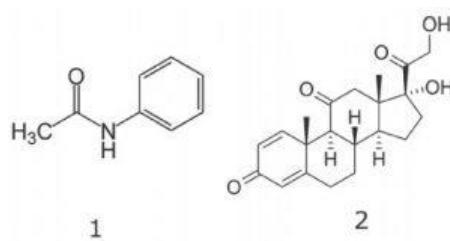
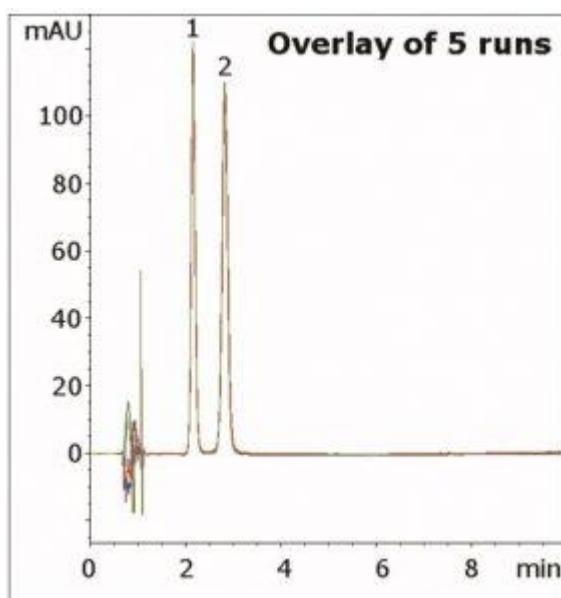


Prednisone Analyzed with HPLC - AppNote

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 0.45 μ m Nylon Syringe Filter (MICROSOLV Technology Corp.). 110 μ L of the filtrate and 90 μ L of a 0.1mg / mL Acetanilide solution were combined and diluted with 800 μ L Methanol. Peaks were confirmed by individual standards.

t₀: 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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