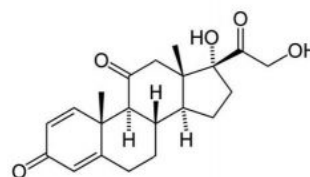
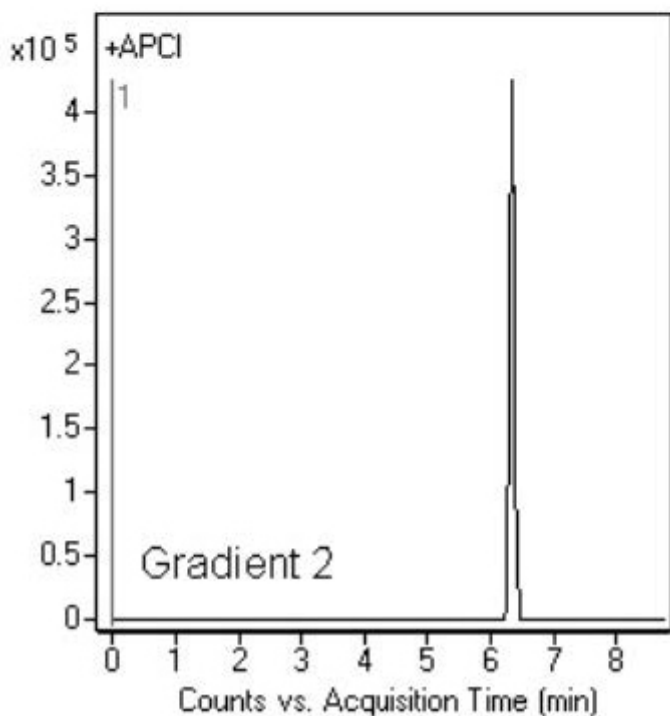
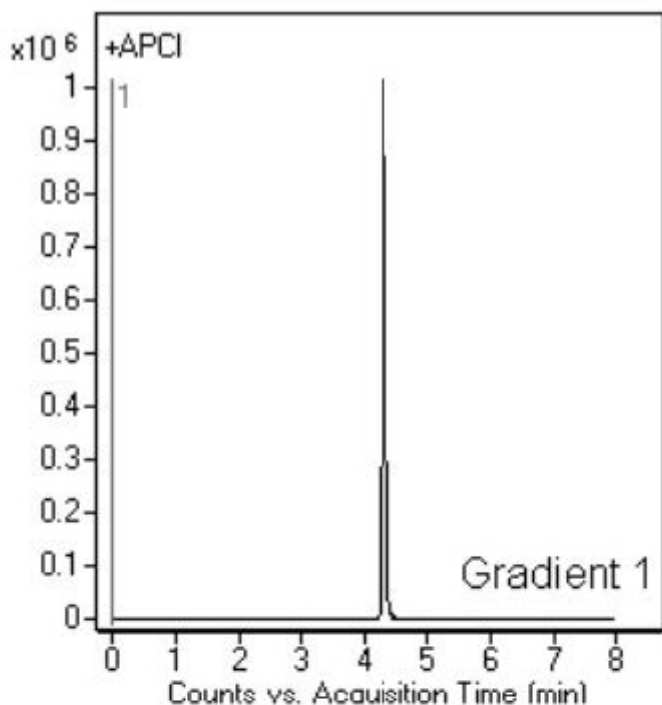


## Prednisone quantitation method by LCMS – AppNote

### Simple and easy prednisone analysis with LCMS detection

This method does not require any type of derivatization. Two Gradients are presented which will allow you to choose one depending on other components in the sample and your Method objectives. Retention can be achieved on a very short column (50 mm) as shown. Linear gradient conditions were used for analysis of this important Corticosteroid.



Prednisone

#### Peak:

Prednisone 359.1853 m/z (M+H)<sup>+</sup>

## Method Conditions

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

**Catalog No.:** 40018-05P-2

**Dimensions:** 2.1 x 50 mm

**Mobile Phase:**

A: DI Water+ 0.1% Formic Acid

B: Methanol + 0.1% Formic Acid

**Gradient 1:**

| Time (minutes) | %B  |
|----------------|-----|
| 0              | 10  |
| 5              | 100 |
| 7              | 100 |
| 8              | 10  |

**Gradient 2:**

| Time (minutes) | %B  |
|----------------|-----|
| 0              | 10  |
| 10             | 100 |
| 11             | 100 |
| 12             | 10  |

**Post Time:** 5 minutes

**Total Time:** 12 minutes

**Injection vol.:** 1µL

**Flow rate:** 0.4mL / minute

**Detection:** APCI – POS – Agilent 6210 MSD TOF Mass Spectrometer

**Sample Preparation:** Prednisone 100ng / mL prepared in 100% B and diluted 1:10 before analysis

**Note:** The administration of Prednisone, a synthetic analog of Cortisone, suppresses production of Cortisol and monitoring the concentration of this Corticosteroid has significant therapeutic and clinical importance. Prednisone and Prednisolone were introduced by Schering Corporation in the mid-1960s under the brand names Meticorten® and Meticortelone®, respectively. These prescription medicines are now available from a number of manufacturers as generic drugs.



**Attachment**

**Quantitation of Prednisone with LCMS pdf**

Printed from the Chrom Resource Center

**MicroSolv Technology Corporation**

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: [customers@mtc-usa.com](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)

Date: 04-05-2024