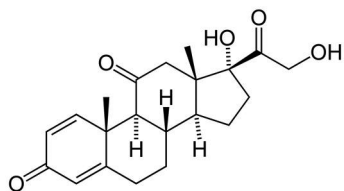
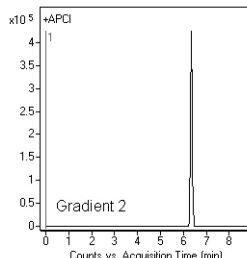
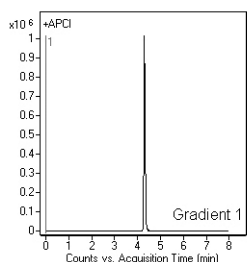


Quantitation of Prednisone

Simple and Easy by LCMS



Prednisone



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.

Method Conditions

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

Catalog No.: 40018-05P-2

Dimensions: 2.1 x 50 mm

Solvents: A: DI water + 0.1% formic acid
B: methanol+ 0.1% formic acid

Gradient:	Gradient 1		Gradient 2	
	time (min.)	%B	time (min.)	%B
	0.00	10.0	0.00	10.0
	5.00	100.0	10.0	100.0
	7.00	100.0	11.0	100.0
	8.00	10.0	12.0	10.0

Post time: 5 min

Total time: 12 minutes

Injection: 1 microL

Flow rate: 0.4 mL/min.

Sample: Prednisone 359.1853 m/z (M⁺H)⁺

(100 ng/mL prepared in 100%B and diluted 1:10 before analysis.)

Detection: APCI – POS - Agilent 6210 MSD TOF mass spectrometer.

Discussion

The LC/MS method in this note does not need any type of derivatization and has therefore offers a great advantage over other HPLC methods. Two types are 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. All TYPE-C Cogent columns equilibrate very rapidly to initial conditions when gradient analysis is used.

For more information visit www.MTC-USA.com

Cat. No.	Description
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40018-05P-2	Cogent Bidentate C18™ HPLC Column, 4µm, 100A, 2.1mm x 50mm
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