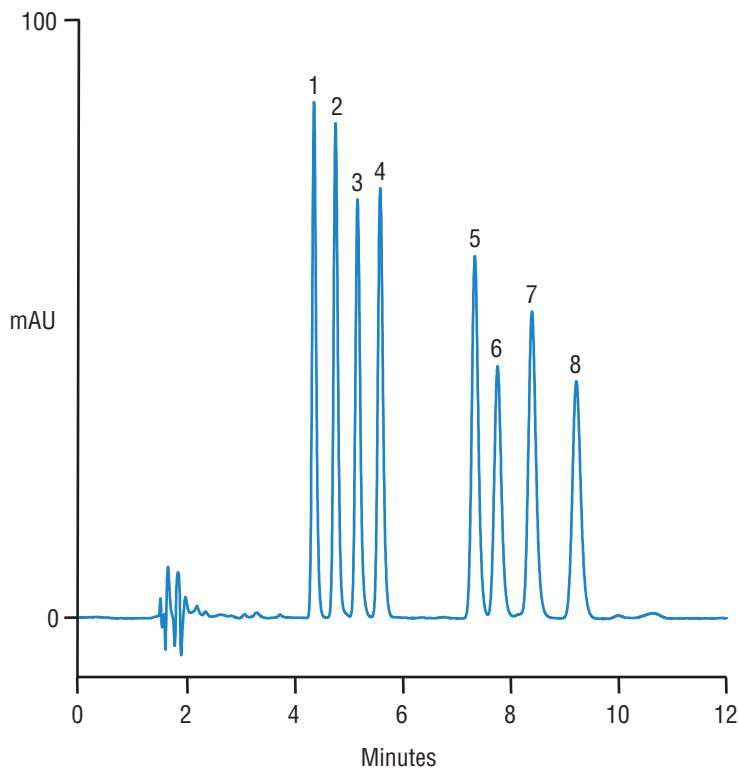


Glucocorticosteroid Standards Using a Thermo Scientific™ Acclaim™ C30 Column

Column: Thermo Scientific™ Acclaim™ C30, 3 μ m (3.0 \times 150 mm)
LC System: Thermo Scientific™ Dionex™ UltiMate™ 3000 RS
Mobile Phase: Methanol/tetrahydrofuran/water 3:25:72 (v/v)
Flow: 0.50 mL/min
Temperature: 30 °C
Inj. Volume: 2 μ L
Detector: Diode array; UV 240 nm

Peaks:

1. Prednisone	50 μ g/mL
2. Cortisone	
3. Prednisolone	
4. Hydrocortisone	
5. Dexamethasone	
6. 6-Methylprednisolone	
7. Corticosterone	
8. 11-Deoxyhydrocortisone	

Reference: McWhinney B C, Ward G, Hickman P E, Clin. Chem, 1996, 42, 979–981.

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Glucocorticosteroids are a group of naturally occurring and synthetic hormones that moderate inflammation and other stress responses. Separation of these substances is challenging due to their structural similarity. While the method referenced uses a C18 column, the Acclaim C30 column offers improved resolution and throughput with the same elution order under the same conditions as shown here.