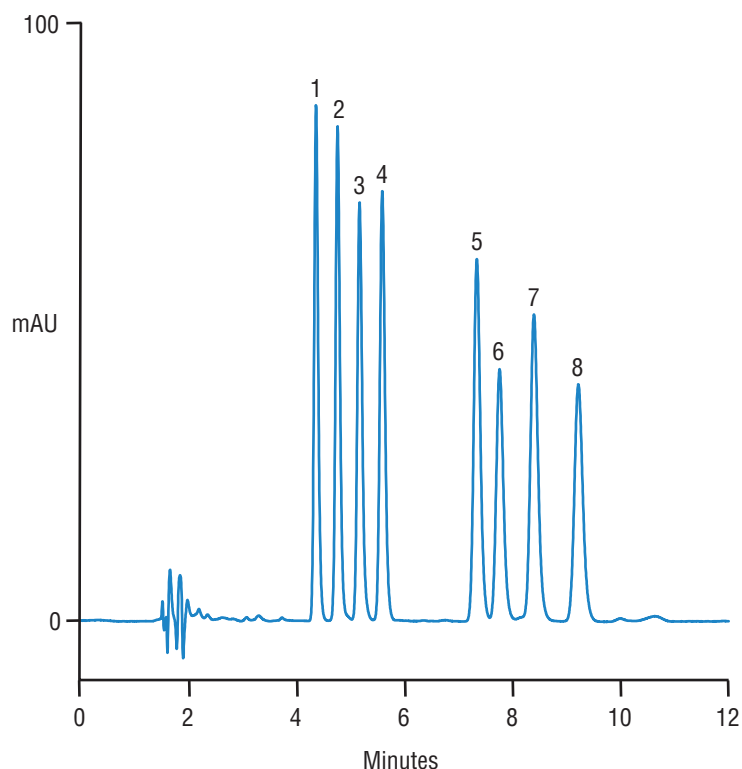


Glucocorticosteroid Standards Using a Thermo Scientific™ Acclaim™ C30 Column



Column: Thermo Scientific™ Acclaim™ C30, 3 µm (3.0 × 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 µL
 Detector: Diode array; UV 240 nm

Peaks: 1. Prednisone 50 µg/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.