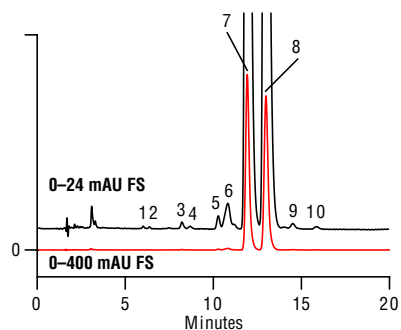


Budesonide and Related Substances



Column: Acclaim[®] 300 C18 3 μ m,
 4.6 x 150 mm
 Pump: Summit P580 HPG/4
 Mobile Phase: (A) Acetonitrile:ethanol 15:1
 (B) 0.1% phosphoric acid
 Isocratic 66% B
 Flow: 1.0 mL/min
 Temperature: 30 °C
 Injection: ASI-100 autosampler, 15 μ L
 Detector: UVD 340U; UV at 240 nm
 Sample: Budesonide, 500 μ g/mL
 after three days
 Peaks: 7, 8. Budesonide epimers, 99%

Reference: Hou S, Hindle M, Byron PR;
J. Pharm. Biomed. Anal. **2001** 24:371-80.

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Budesonide is a highly effective steroidal antihistamine decongestant, and is available as a mixture of two epimers. The safety of budesonide-based pharmaceuticals depends on careful monitoring of impurities associated with the epimers. The related substances are decomposition products and synthetic byproducts. The Acclaim 300 C18 column is a direct replacement for the column in the reference method.