

Ranitidine Hydrochloride and Related Impurities

ACE[®]
Ultra-inert
UHPLC & HPLC Columns

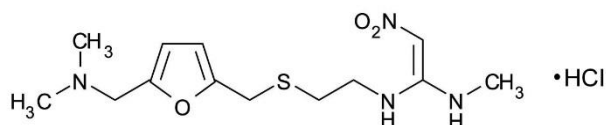
Application #AN3450

Conditions

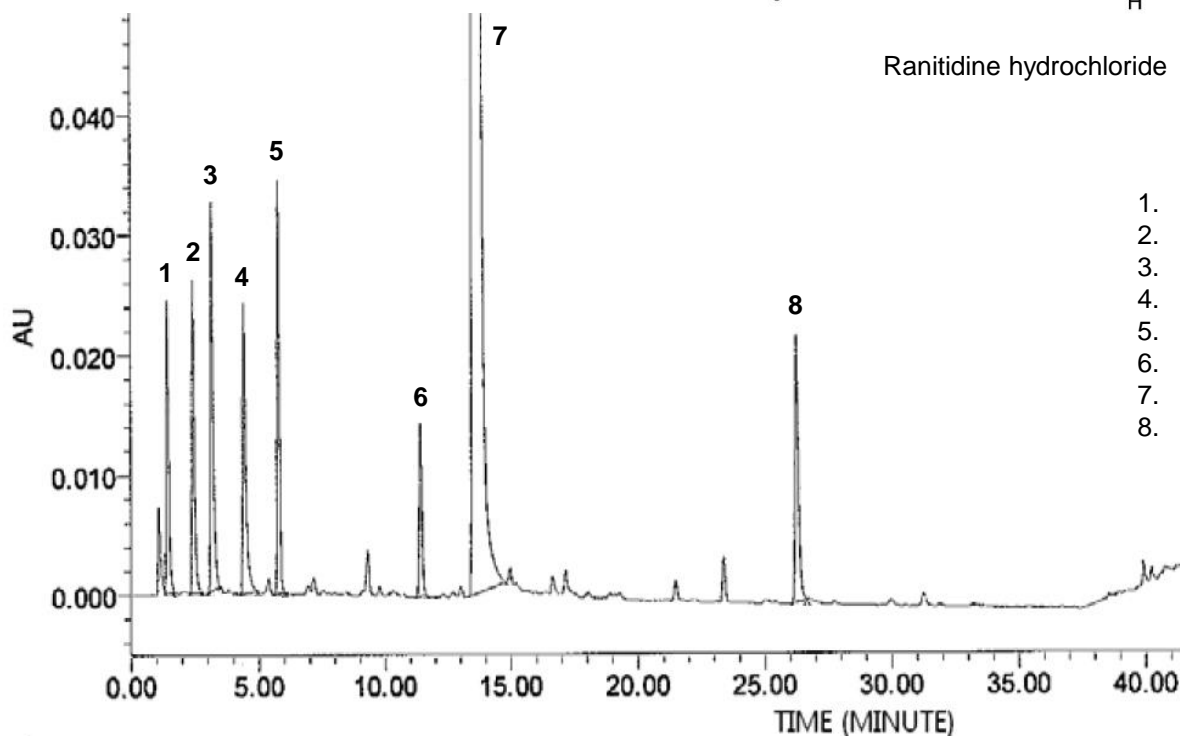
Column: ACE 3 C18
Dimensions: 100 x 4.6 mm
Part Number: ACE-111-1046
Mobile Phase: A: 0.05 M KH₂PO₄ pH 6.5 in H₂O/MeCN (98:2 v/v)
B: H₂O/MeCN (5:95 v/v)

Time (mins)	%B
0	0
10	5
25	15
35	20
40	55
55	0

Flow Rate: 1 mL/min
Injection: 40 µL
Temperature: 40 °C
Detection: UV, 230 nm



Ranitidine hydrochloride



1. Impurity F
2. Impurity E
3. Impurity D
4. Impurity A
5. Impurity C
6. Impurity G
7. Ranitidine
8. Impurity B

Sharma N, Rao S, Kumar N, Reddy P, Reddy A (2011) A Validated Stability-Indicating Liquid-Chromatographic Method for Ranitidine Hydrochloride in Liquid Oral Dosage Form. *Sci Pharm.* 79, 309.
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