Ranitidine Hydrochloride and Related Impurities

ACE® Ultra-inert UHPLC & HPLC Columns

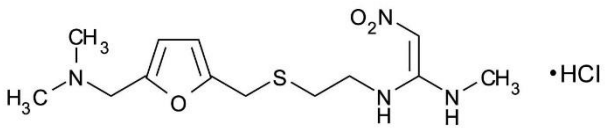
Application #AN3450

Conditions

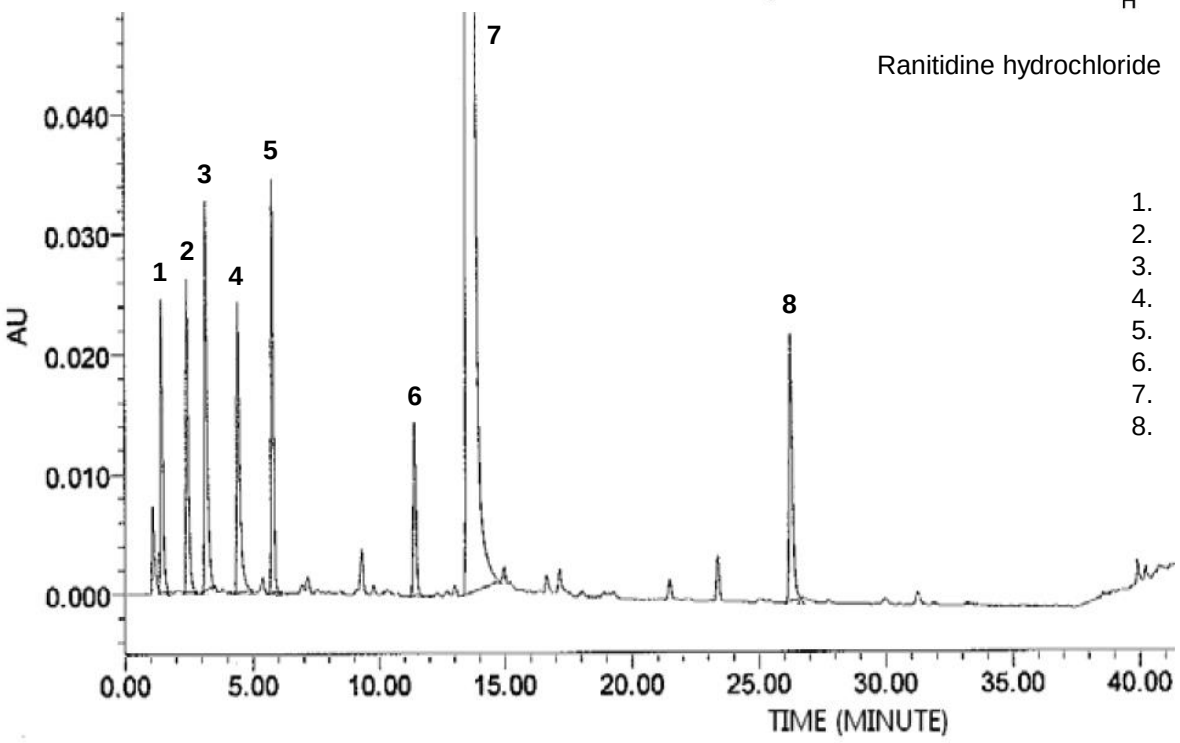
Column:	ACE 3 C18
Dimensions:	100 x 4.6 mm
Part Number:	ACE-111-1046
Mobile Phase:	A: 0.05 M KH_2PO_4 pH 6.5 in H_2O/MeCN (98:2 v/v) B: H_2O/MeCN (5:95 v/v)

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. doi:10.3797/scipharm.1101-06