

Cimetidine, also known as Tagamet, was the first histamine H2-receptor antagonist anti-ulcer treatment to be released in the United States. Like famotidine, which also appears in this application, these drugs work against ulcers by actually turning off the pathway that produces stomach acids and other gastrointestinal fluids. Ulcer medications are second only to cardiac drugs as the most frequently prescribed drugs. This application was developed for general interest. If desired this mixture can also be separated at higher pH.



Conditions

 $\label{eq:column: ZORBAX SB-CN (4.6 x 150 mm; 3.5 \mum) (Agilent P/N: 863953-905) Mobile Phase: 90% 25 mM NaH_2PO_4, Monobasic (pH 3.0 with H_3PO_4): 10% Acctonitrile Inj. Vol.: 2 \muL Flow: 1 mL/min Temp.: 35°C Det: UV (220 nm)$

Highlights

- Agilent ZORBAX StableBond columns offer good peak shape for basic compounds at low pH.
- StableBond columns are extremely stable at low pH. This is also true for short chain, more-polar bonded phases like ZORBAX SB-CN.



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