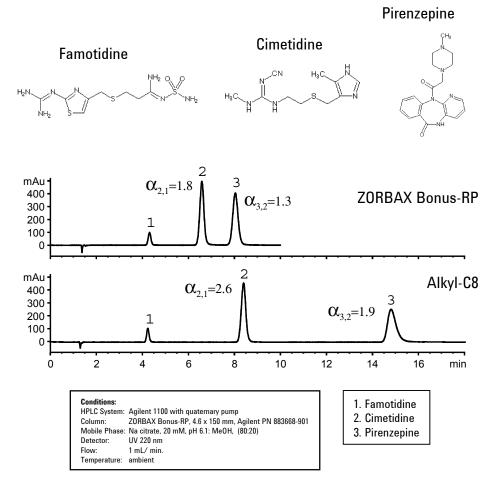


Ulcer-Treatment Drugs at Intermediate pH on ZORBAX Bonus-RP

Application Pharmaceutical Robert Ricker

This medication for stomach ulcers, is a mixture of basic drugs. At intermediate pH, these compounds elute from Agilent ZORBAX Bonus-RP with reduced peak tailing compared to a conventional alkyl C8 column (note peak #3). Superior column performance of the Bonus-RP is attributed to combining ultrapure Type B silica support with a stationary phase that has an amide group embedded in the alkyl chain, bulky (sterically-protecting) diisobutyl groups, and dense endcapping.



Highlights

- Long Life over a wide pH range:

 Sterically protecting diisopropyl groups resist hydrolysis and bonded phase loss at low pH.
 - Dense triple-endcapping protects silica support from dissolution at intermediate pH.
- Good Peak Shape: Compared to conventional alkyl columns, Bonus-RP often produces superior peak shapes of polar or ionizable compounds at intermediate pH (compare peak #3 in chromatograms).
- · Alternate Selectivity:
 - Agilent ZORBAX Bonus-RP is a unique polar-linked bonded phase that can provide different selectivity and can be used in highly aqueous mobile phase without phase collapse.



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Printed in the USA April 25, 2002 5988-6418EN



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