Anorectics (Fen-Phen) Analysis on ZORBAX Bonus-RP

Application
Pharmaceutical
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The popular but controversial dietary aide, Fen-Phen, is a mixture of two basic drugs. These compounds elute from ZORBAX Bonus-RP with reduced peak tailing compared to that on an alkyl-C8 column.

Highlights

• ZORBAX Bonus-RP provides unique selectivity and peak shape that significantly improves resolution between peak 2 and an impurity.

• ZORBAX Bonus-RP is a unique polar-linked bonded phase that provides:
  – Good peak shape (improved quantitation and resolution)
  – Alternate selectivity (improved resolution)
  – Long life over a wide pH range (reproducible separations)

**Conditions:**
- HPLC System: Agilent 1100 with quaternary pump
- Column: ZORBAX Bonus-RP, 4.6 x 150 mm, Agilent P/N: 883668-901
- Mobile Phase: [MeOH: ACN (50:50)] : K2HPO4, 25 mM, pH 7.2, (55: 45)
- Detector: UV 254 nm; Flow: 1 mL/min.; Temperature: ambient

![Graph showing chromatograms of Phentermine, Fenfluramine, and Impurity on ZORBAX Bonus-RP and Alkyl-C8 columns.](image)
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