

Agilent HPLC Columns – Zorbax Bonus-RP

- Excellent peak shape for challenging basic compounds at low and mid pH
- Unique reversed-phase selectivity
- Novel bonding technology with embedded polar group and steric protection
- Usable in 100% aqueous mobile phases

The Agilent Zorbax Bonus-RP column has a polar amide group embedded in a long alkyl chain. This novel bonding reduces interactions between basic compounds and the silica support, improving peak shape for the most difficult basic compounds. Peak shape and column lifetime are further improved by triple endcapping. In addition, diisopropyl side groups provide steric protection against acid hydrolysis for good lifetime at low pH. The Bonus-RP column provides an alternate selectivity to C18 and C8 alkyl bonded phases.

Zorbax Bonus-RP Column Specifications

Bonded Phase	Pore Size	Surface Area	Temp Limits	pH Range	Endcapped	Carbon Load
Bonus-RP	80Å	180m ² /g	60° C	2.0 - 9.0	Triple	9.5%

Zorbax Bonus-RP Columns

	Particle Size (µm)	Bonus-RP Cat. No.
4.6 x 250mm	5	880668-901
4.6 x 150mm	5	883668-901
4.6 x 150mm	3.5	863668-901
4.6 x 100mm	3.5	864668-901
4.6 x 75mm	3.5	866668-901
2.1 x 150mm	5	883725-901
2.1 x 50mm	5	861971-901
2.1 x 100mm	3.5	861768-901
2.1 x 50mm	3.5	861700-901
1.0 x 150mm	3.5	863608-901
1.0 x 50mm	3.5	865608-901
1.0 x 30mm	3.5	861608-901
1.0 x 17mm, 3/pk	5	5185-5922

Guard Cartridges (requires hardware kit 820888-901)

4.6 x 12.5mm, 4/pk	5	820950-928
2.1 x 12.5mm, 4/pk	5	821125-928

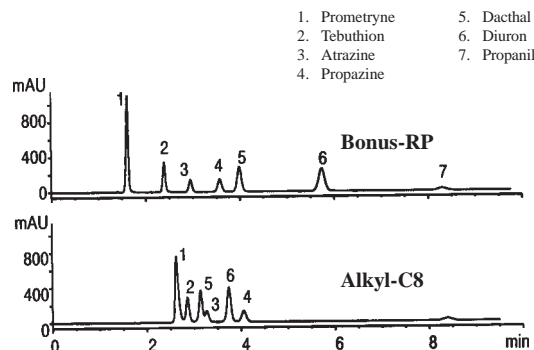
Guard Hardware Kit (fits 4.6 and 2.1mm ID cartridges)

Hardware kit	-	820888-901
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820888-901 guard hardware kit shown with guard cartridge and column

Bonus-RP Can Provide Alternative Selectivity to Alkyl Phases

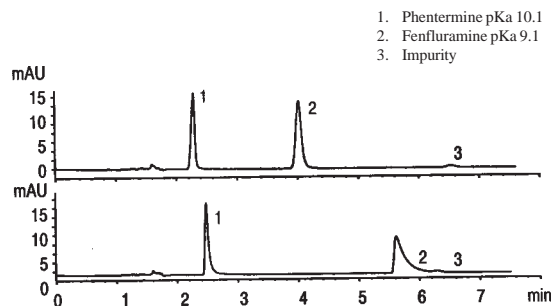


Column Conditions Zorbax Bonus-RP

Column: 4.6 x 150mm
Instrument: Agilent 1100
Mobile phase: MeOH: 0.1% TFA (70:30)*
Flow rate: 1 mL/min.
Temperature: Ambient
Inj.: 2µL
UV: 254nm

*For low pH work, a TFA mobile phase is often preferred over phosphate and is compatible with LC/MS

Bonus-RP Provides Excellent Peak Shape for Anorectics at Mid-Range



Column Conditions Zorbax Bonus-RP

Columns: 4.6 x 150mm
Mobile phase: 25mM K₂HPO₄, pH 7.2/MeOH:ACN (50:50), 45/55
Flow rate: 1 mL/min.
Inj.: 5µL
UV: 254nm
Sample: Anorectics ("Fen-phen")