

ZORBAX Equivalents to USP L-Numbered Packings

Application Pharmaceutical

Robert Ricker

The US Pharmacopeia (USP) is a standard source for many pharmaceutical methods. HPLC column L-numbers are recommended for most LC methods listed with the USP.

PACKING DESCRIPTION	Equivalent Zorbax Columns [†]	Particle Size (µm)	Pore-Size* (Å)	Common Lengths** (mm)
L1-Octadecyl silane chemically bonded to porous silica or ceramic micro-particles, 3 to 10 µm in diameter.	Zorbax ODS ¹ Zorbax ODS classic ¹ Rx-C18, SB-C18		80 å	
	Eclipse XDB-C18 ¹	3.5 and 5 µm	300Å	15-250mm
L3-Porous silica particles, 5 to 10 µm in diameter.	Zorbax SIL ¹ , Rx-SIL	3.5 and 5 µm	80 Å 300Å	15-250 _{mm}
L7-Octylsilane chemically bonded to totally porous silica particles, 3 to 10 µm in diameter.	Zorbax C8 ¹ Rx-C8, SB-C8 Eclipse XDB-C8 ¹	3.5 and 5μm	80Å 300Å	15-250 _{mm}
L8-An essentially monomolecular layer of aminopropylsilane chemically bonded to totally porous silica gel support, 10 µm in diameter.	Zorbax NH ₂	5 μm	80Å	150 _{mm} 250 _{mm}
L9-10-µm irregular, totally porous silica gel having a chemically bonded, strongly acidic cation-exchange coating.	Zorbax SCX ¹ BioSeries SCX ² (spherical 5µm particle)	5 μm	80 Å 300Å	250 _{mm}
L10-Nitrile groups chemically bonded to porous silica particles, 3 to 10 µm in diameter.	Zorbax CN ¹ SB-CN	3.5 and 5µm	80 Å 300Å	15-250mm
L11-Phenyl groups chemically bonded to porous silica particles, 5 to 10 µm in diameter.	Zorbax Phenyl SB-Phenyl	3.5 and 5 µm	80Å	50-250 _{mm}
L13-Trimethylsilane chemically bonded to porous silica particles, 3 to 10 µm in diameter.	Zorbax TMS	5μm	80Å	150 _{mm} 250 _{mm}
L14-Silica gel 10 µm in diameter having a chemically bonded, strongly basic quaternary ammonium anion-exchange coating.	Zorbax SAX ¹ BioSeries SAX ² (spherical 5µm particle)	5 _{µm}	80å 300å	250 _{mm}
L33-Packing having the capacity to separate proteins by molecular size over a range of 4,000 to 400,000 daltons. It is spherical, silica-based, and processed to provide pH stability.	Zorbax BioSeries: GF-250 GF-450 (10,000 to 1,000,000 dal range)	4.5μm 6μm	150Å 300Å	250mm 250mm

- This bonded phase is only available in the 80Å pore size.
- 2 This bonded phase is only available in the 300 Å pore size.
- * Zorbax columns are available in a variety of pore sizes (80Å, 300Å) chosen to match the proposed uses for the column.
- ** Zorbax columns are available in a wide variety of column dimensions chosen to match the proposed uses for each column packing.

New column configurations become available on an ongoing basis, to meet new demands of the chromatographer.

Tube lengths Cartridge-Column Lengths:

Diameters: 1, 2.1, 3.0, 4.6, 9.4, and 21.2 mm 50, 75, 150, and 250 mm 15, 30, and 50 mm

(Traditional cartridges 6 x 40 mm)

†Most custom column configurations are available upon request. Please inquire, using part # 899999-999

Highlights

 ZORBAX HPLC columns are available for a broad range of modern USP LC column designations and methods.



Robert Ricker is an application chemist based at Agilent Technologies, Wilmington, Delaware.

For more information on our products and services, visit our website at: www.agilent.com/chem

Copyright[©] 2002 Agilent Technologies, Inc. All Rights Reserved. Reproduction, adaptation or translation without prior written permission is prohibited, except as allowed under the copyright laws.

Agilent shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Information, descriptions, and specifications in this publication are subject to change without notice.

Printed in the USA April 25, 2002 5988-6411EN

