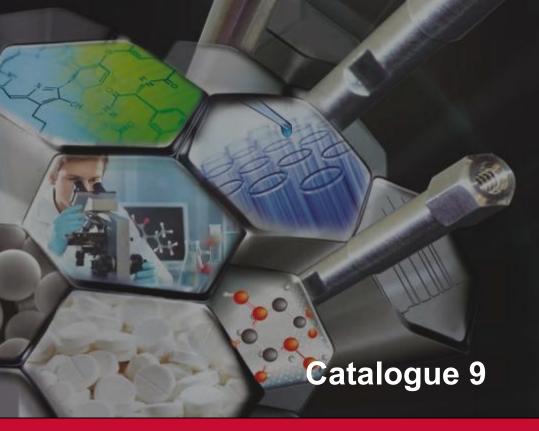


HICHROM

Chromatography Columns and Supplies





Hichrom Limited

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LiChroprep®

- Irregular preparative silica
- Three particle size ranges
- Guaranteed reproducibility from analytical (LiChrosorb and LiChrospher) to preparative phases
- Competitive price

LiChroprep® is a proven, highly successful packing material providing fast, effective and reproducible separations in HPLC and medium pressure chromatography. Merck offer three different particle size ranges of LiChroprep silica, available as a base silica or C18 bonded phase. The smaller particle size range, 15-25μm, is the most suitable for HPLC. LiChroprep RP-8, amino-, cyano- and diol-bonded phases are available in larger particle size materials.

Preparative Scale-Up

Figure 1A shows an analytical scouting separation of a prostaglandin sample performed at 1.5ml/min on a 10µm 250 x 4mm LiChrosorb Si60 column. A scaled-up separation of the same prostaglandin sample (Figure 1B), but with higher loading, was performed at 2.0litre/min on a 600 x 200mm LiChroprep Si60 column packed with 25-40µm particles. In this example, four different fractionation zones were identified from which the prostaglandin purity was identified.

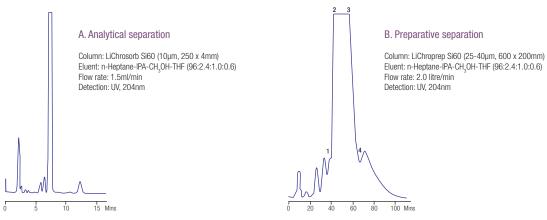
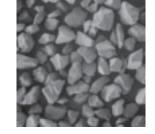


Figure 1. Example of preparative scale-up

LiChroprep RP-18 Phase

Particle Size Range (µm)	15-25	25-40	40-63
Mean Particle Size (µm)	22	32	54
Minimum Theoretical Plates (plates/m) ¹	10,000	5,500	1500
Typical Column Back Pressure (psi) ¹	150	90	75
Surface Area (m²/g)		320	
Pore Size (Å)		100	
Carbon Load (%)		17-19	



Ordering Information

LiChroprep Phase	Particle Size (µm)	Bulk Material ¹							
		100g		250g		500g		1kg	
Si 60	15-25	-		-		-		09336.1000	£283
	25-40	-		-		-		09390.1000	£293
	40-63	-		13905.0250	£77	-		13905.1000	£280
RP-18	15-25	-		-		13901.0500	£1,960	-	
	25-40	09303.0100	£441	-		09303.0500	£1,590	-	
	40-63	-		13900.0250	£870	-		13900.1000	£2,900
RP-8	40-63	-		09362.0250	£799	-		09362.1000	£2,900
DIOL	40-63	-		13973.0250	£838	-		-	
NH2	40-63	-		13974.0250	£848	-		13974.1000	P0A
CN	40-63	-		13959.0250	£1,210	-		-	

¹ Larger pack sizes also available

¹ 250 x 4 mm, CH₃CN-H₂O (75:25) @ 1ml/min.