



HICHROM

Chromatography Columns and Supplies

**LC COLUMNS
Thermo Scientific
Hypercarb**

Catalogue 9

Hichrom Limited

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Hypercarb®

- Excellent retention of very polar analytes
- Separates structurally related substances
- pH stable from 0 to 14
- Ideal for high temperature applications

Hypercarb® is a unique Porous Graphitic Carbon (PGC) phase composed of flat sheets of hexagonally arranged carbon atoms, with a fully satisfied valence. The selectivity offered by Hypercarb is different to that of silica and polymeric phases. Hypercarb is ideally suited to the separation of highly polar compounds and compounds with closely related structures, including geometric isomers and diastereomers.

The physical characteristics of the material are different from conventional silica and polymer materials. Hypercarb is totally stable across the entire pH range. It can be used for both normal- and reversed-phase HPLC and is well suited for reversed-phase LC-MS assays as it is stable with any eluent and produces no phase bleed issues. The robust nature of the material ensures a long column lifetime.

Particle Size (µm)	Pore Size (Å)	Pore Volume (cc/g)	Surface Area (m ² /g)
3, 5, 7	250	0.7	120

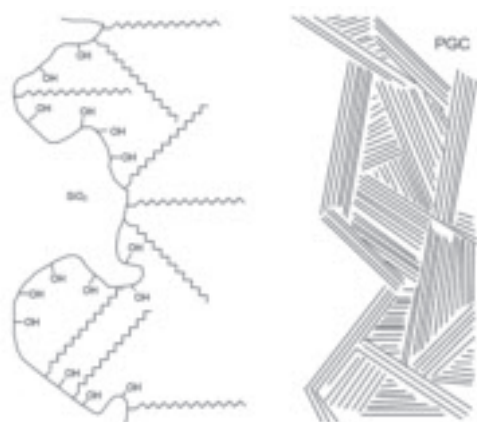


Figure 13. Surface comparison between ODS bonded silica and Porous Graphitic Carbon

Please contact Hichrom for a copy of the Hypercarb Method Development Guide

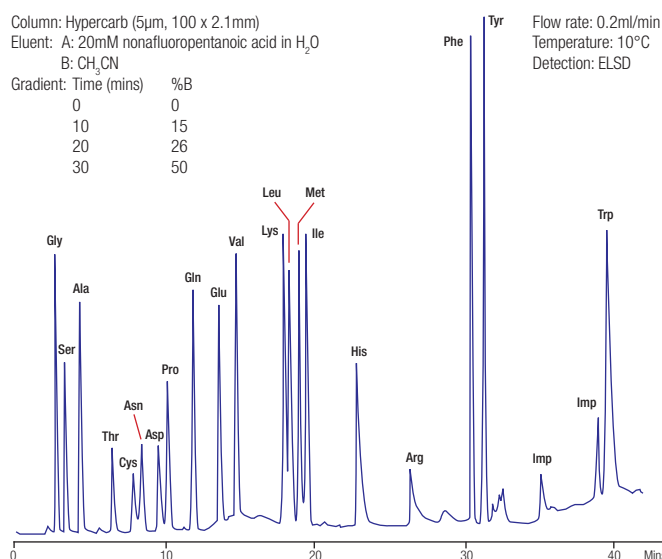


Figure 14. Separation of amino acids on Hypercarb

Ordering Information

Hypercarb Phases

Column i.d. ¹ (mm)	Column Length ¹ (mm)					Drop-In Guard Cartridges (2/pk)
	30	50	100	150	250	
3µm Phase						
2.1	35003-032130 £529	35003-052130 £529	35003-102130 £661	35003-152130 £891	-	35003-012101 ² £222
3.0	35003-033030 £634	35003-053030 £634	35003-103030 £792	35003-153030 £1,070	-	35003-013001 ² £222
4.6	35003-034630 £705	35003-054630 £705	35003-104630 £881	35003-154630 £1,189	-	35003-014001 ³ £222
5µm Phase						
2.1	35005-032130 £482	35005-052130 £482	35005-102130 £601	35005-152130 £810	35005-252130 £962	35005-012101 ² £202
3.0	35005-033030 £577	35005-053030 £577	35005-103030 £721	35005-153030 £973	35005-253030 £1,441	35005-013001 ² £202
4.6	35005-034630 £640	35005-054630 £640	35005-104630 £801	35005-154630 £1,081	35005-254630 £1,602	35005-014001 ³ £202

¹ Hypercarb 7µm and other column dimensions, including capillaries, available

² Use with Uniguard direct connect holder 852-00 (£75)

³ Use with Uniguard direct connect holder 850-00 (£75)