



% Carbon - 11%C

UniverSil® C18
250x4.6mm 5µm

Cefadroxil

Cefachlor


Cefalexin

Cefradine

Minutes

Chromatogram showing the separation of four cephalosporins: Cefadroxil, Cefachlor, Cefalexin, and Cefradine. The x-axis represents time in minutes (0 to 14), and the y-axis represents detector response. Cefadroxil is the most polar component, eluting first at approximately 5.5 minutes. Cefachlor elutes at approximately 8.5 minutes, Cefalexin at approximately 10.2 minutes, and Cefradine at approximately 13.8 minutes. The peaks are well-resolved, indicating good chromatographic performance.

Cefradine



The chemical structure of Cefradine is a first-generation cephalosporin. It features a four-membered beta-lactam ring fused to a five-membered thiazolidine ring. A carboxymethyl group (-CH₂COO⁻) is attached to the 3-position of the thiazolidine ring. A phenylacetamido group (-NHCOCH₂Ph) is attached to the 4-position of the beta-lactam ring. The structure is shown in a skeletal format with a positive charge on the nitrogen of the beta-lactam ring.

UniverSil C18 Guards		Length
		10
Column Diameter	2.1	DCU18-0200xxG
	4.6	DCU18-0500xxG

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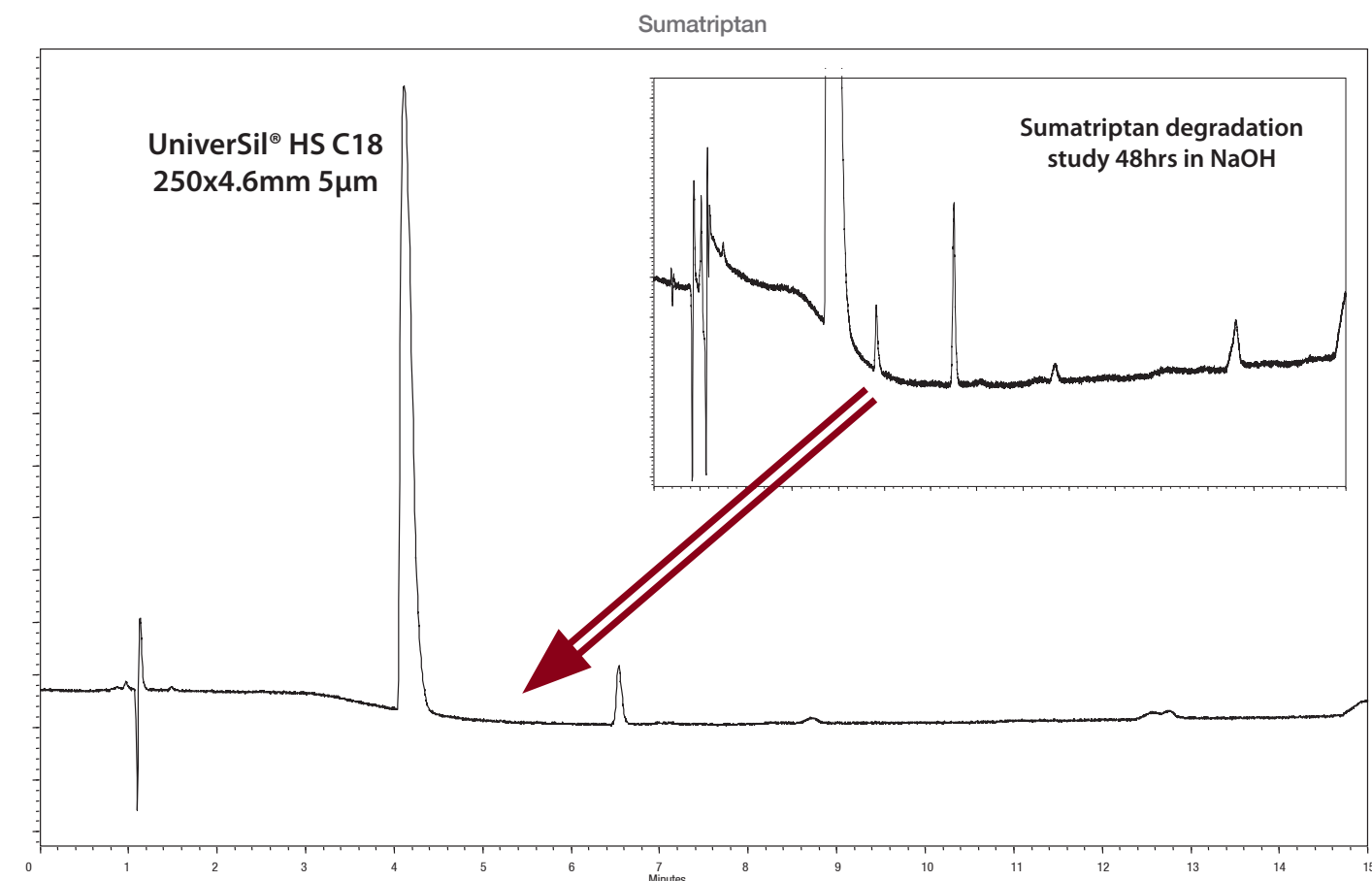
Surface Area - 325m²/g

Pore Size - 100Å

% Carbon - 16%C

UniverSil HPLC columns are a suitable economical alternative to many of the older brands on the marketplace from Kromasil, Macherey Nagel, Hypersil and Merck. Many of the phases have very similar physical characteristics meaning that UniverSil will provide similar selectivity and resolution as your current chromatography. Use UniverSil to upgrade your method in terms of peak shape, robustness and reproducibility, or just to provide a economical back-up to your current column. UniverSil silica is a new Type B silica meaning improved peak shape and improved lifetime.

UniverSil® HS C18 is an alternative to:		
Alltech® Alltima	Alltech	300m ² /g
Betasil® C18	Thermo Electron	300m ² /g
Cosmosil® 18	Nacalai Tesque	330m ² /g
Genesis® ODS	Jones	300m ² /g
Hypersil® HS	Thermo Electron	300m ² /g
Inertsil® ODS2	GL Sciences	320m ² /g
Kromasil® C18	Akzo Nobel	340m ² /g
Lichrosphere® RP18	Merck	350m ² /g
Nucleosil® 100 C18	Macherey Nagel	350m ² /g
Symmetry® C18	Waters	335m ² /g
YMC® Pack ODS AL	YMC	300m ² /g
Zorbax® C18	Agilent	300m ² /g



Column: UniverSil™ HS C18 250x4.6mm 5µm

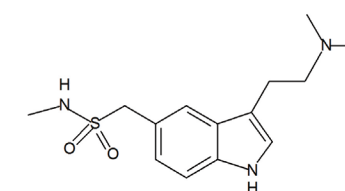
p/n: UHS18-050905

Mobile Phase:

Flow: 1.0ml/min

Temp: 25°C

Wavelength: 254nm



UniverSil® HS C18	Column Length			
	50	100	150	250
2.1	UHS18-0203xx	UHS18-0205xx	UHS18-0207xx	-
3.0	UHS18-0303xx	UHS18-0305xx	UHS18-0307xx	-
4.6	UHS18-0503xx	UHS18-0505xx	UHS18-0507xx	UHS18-0509xx

Replace xx - 03 for 3µm - 05 for 5µm

UniverSil HS C18 Guards		Length
		10
Column Diameter	2.1	DCUHS18-0200xxG
	4.6	DCUHS18-0500xxG

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WORLDWIDE AVAILABILITY



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