



ACE C18-HL (Hi-Load)

- High surface area, high carbon load phase
- Increased loading and retention
- Optimised for preparative and process scale applications
- 3µm, 5µm, 10µm and 15µm particle sizes
- Exceptional chemical stability
- Excellent peak shape with acidic, basic and neutral molecules



PHASE	FUNCTIONAL GROUP	ENDCAPPED	PARTICLE SIZE (µm)	PORE SIZE (Å)	SURFACE AREA (m ² /g)	CARBON LOAD (%)
C18-HL	Octadecyl	Yes	3, 5, 10, 15	90	400	20.0

LC/MS to Preparative Scale Applications

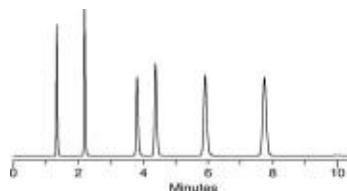
The increased retention characteristics of ACE C18-HL (see Figure 11a) make it an ideal selection for LC/MS applications. Retention can be maintained whilst reducing the aqueous content of the mobile phase, thus increasing sensitivity.

For preparative applications, the higher surface area leads to increased loading capacity. Available in 3µm, 5µm, 10µm and 15µm particle sizes and a wide range of column dimensions (see pages 14-17), ACE C18-HL columns show reproducible scale up from LC/MS to preparative scale dimensions.

100Å

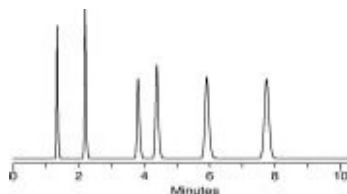
Figure 11a. Reproducible Scale-Up with ACE C18-HL Columns

ACE 3 C18-HL



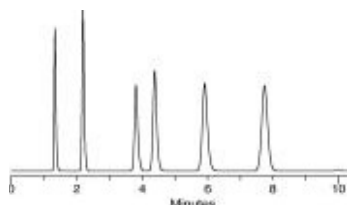
LC/MS
150 x 2.1mm i.d.
0.21ml/min

ACE 5 C18-HL



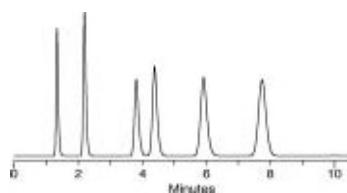
Analytical
150 x 4.6mm i.d.
1.00ml/min

ACE 10 C18-HL



Semi-Preparative
150 x 10mm i.d.
4.7ml/min

ACE 15 C18-HL



Preparative
150 x 30.0mm i.d.
42.5ml/min

Sample: 1) Uracil 2) 4-Hydroxybenzoic acid 3) Acetylsalicylic acid 4) Benzoic acid 5) 2-Hydroxybenzoic acid 6) Ethyl paraben
Mobile Phase: 35:65 MeCN/0.1% TFA in H₂O, Temperature: 22°C, Wavelength: 254nm