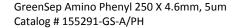


APPLICATION NEWS

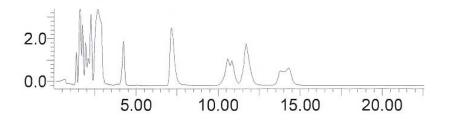
GreenSep™ Amino Phenyl SFC Columns

GreenSep M Amino Phenyl - Supercritical fluid chromatography (SFC) is a powerful chromatographic technique for the separation of complex mixtures. It has been useful in the areas of preparative chromatography and rapid analysis chromatography. Many SFC separations have been forced to utilize older types of stationary phases from "normal phase" HPLC such as unmodified silica, diol, amino and cyano. These phases are poorly adapted to SFC and present a number of limitations for SFC separations. Limitations include: low capacity, poor selectivity, and poor peak shape for SFC separations.

At ES Industries we have developed a new line stationary phases specifically engineered for SFC separations, one of these phases is GreenSep Amino Phenyl. This stationary phase has proven superior to conventional stationary phases (such as diol, cyano etc...) in the areas of separation selectivity, peak shape and loading capacity. The chromatogram shown below is a prime example of the superior peak shape performance and separation capacity obtainable with the GreenSep Amino Phenyl column with SFC. The chromatogram contains chemicals that are functionalized with amine groups and acidic groups, demonstrates the flexibility that GreenSep Amino Phenyl can deliver to the SFC chromatographer. GreenSep Amino Phenyl is the SFC column ideally suited for the retention and rapid separation of chemicals containing acidic groups. GreenSep Amino Phenyl can easily replace conventional stationary phases used in SFC and deliver superior performance.



15% Methanol in Co2 Pressure 100bar Flow: 3mL/min Detection: PDA



- 1. Butyl benzoate
- 2. 4-nitrotoluene
- 3. 2-nitrophenol
- 4. Caffeine
- 5. Antipyren
- 6. Oxprenolol7. Niacinamide
- 8. Sorbic acid
- 9. Napthalene
- 10. Ibuprofen
- 11. N-benzylbenzamide
- 12. 1-aminoisoquinoline
- 13. Propranolol

GreenSep™ Amino Phenyl 5u 120A				
	4.6mm (ID)	4.0mm (ID)	3.2mm (ID)	2.1mm (ID)
5cm	115291-GS-APH	114291-GS-APH	11d291-GS-APH	112291-GS-APH
10cm	125291-GS-APH	124291-GS-APH	12d291-GS-APH	122291-GS-APH
15cm	135291-GS-APH	134291-GS-APH	13d291-GS-APH	132291-GS-APH
25cm	155291-GS-APH	154291-GS-APH	15d291-GS-APH	152291-GS-APH
GreenSep [™] Amino Phenyl 10u 120A				
		GreenSep™ Amino Ph	enyl 10u 120A	
	4.6mm (ID)	GreenSep TM Amino Ph 4.0mm (ID)	enyl 10u 120A 3.2mm (ID)	2.1mm (ID)
10cm	4.6mm (ID) 125391-GS-APH	-		2.1mm (ID) 122391-GS-APH
10cm 15cm		4.0mm (ID)	3.2mm (ID)	
200111	125391-GS-APH	4.0mm (ID) 124391-GS-APH	3.2mm (ID) 12d391-GS-APH	122391-GS-APH
15cm	125391-GS-APH 135391-GS-APH	4.0mm (ID) 124391-GS-APH 134391-GS-APH	3.2mm (ID) 12d391-GS-APH 13d391-GS-APH	122391-GS-APH 132391-GS-APH
15cm 25cm	125391-GS-APH 135391-GS-APH 155391-GS-APH	4.0mm (ID) 124391-GS-APH 134391-GS-APH 154391-GS-APH	3.2mm (ID) 12d391-GS-APH 13d391-GS-APH 15d391-GS-APH	122391-GS-APH 132391-GS-APH 152391-GS-APH