

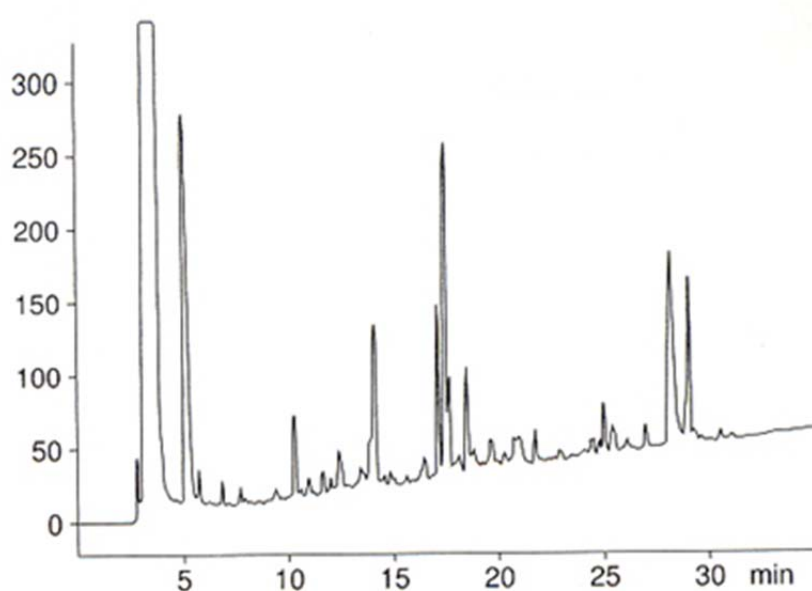
APPLICATION NEWS

MacroDac™ C18 HPLC Columns

MacroDac™ – MacroDac™ is an excellent alternative to W.R. Grace VYDAC® wide pore C18 chromatography media. MacroDac™ C18 is the ideal medium for high-performance reversed-phase chromatography of proteins, peptides, and other large molecules that had previously been difficult to separate by reversed-phase HPLC procedures. The large pores of the 300Å silica allow polypeptide molecules complete access to the interior of the silica pores.

MacroDac™ C18 reversed-phase material consists of octadecyl aliphatic groups bonded to the surface of 300Å pore diameter silica. The unique process by which we manufacture MacroDac™ C18 provides for an HPLC media with very high purity synthetic silica and carefully controlled characteristics. The hydrophobic (reversed) phase is attached to the silica using polyfunctional octadecylchlorosilanes resulting in cross-linking, or polymerization of the hydrophobic phase. The performance of MacroDac™ C18 is demonstrated in the following chromatograms.

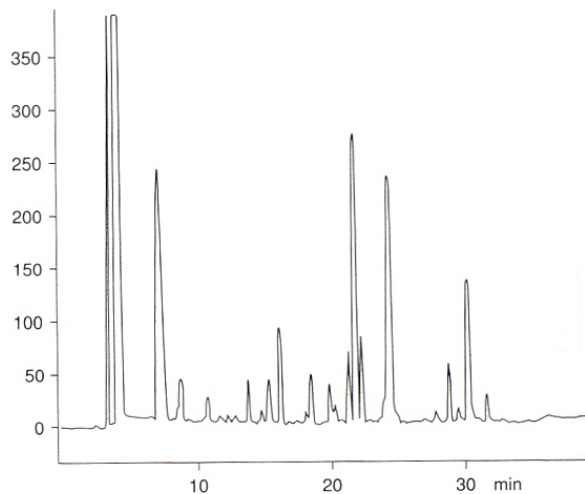
TRYPTIC MAP OF α-CHYMOTRYPSINOGEN



MacroDac™ C18 5µ 300Å 250 X 4.6mm

Mobile Phase	:	A: 0.1% TFA in Water B: 0.1% TFA in Acetonitrile
Gradient	:	A/B (95:5) to A/B (60:40) in 35 min
Flow Rate	:	1.0mL/min
Detection	:	UV @ 215nm
Sample	:	Tryptic digest fragments of α-chymotrypsinogen

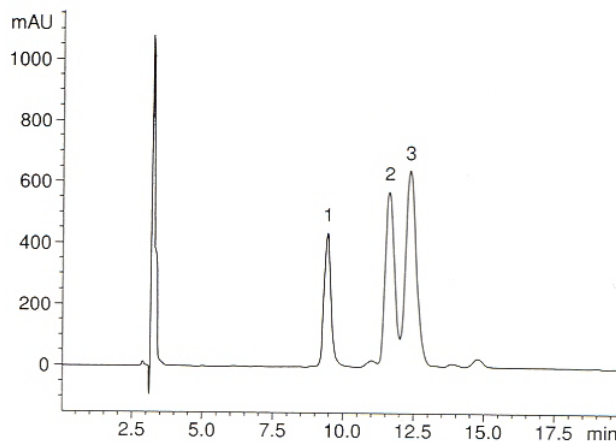
β-LACTOGLOBULIN TRYPTIC DIGEST MAP



MacroDac™ C18 5μ 300Å 250 X 4.6mm

Mobile Phase : A: 0.1% TFA in Water
 B: 0.08% TFA in Acetonitrile
 Gradient : A/B (95:5) to A/B (55:45) in
 40 min
 Flow Rate : 1.0mL/min
 Detection : UV @ 215nm
 Sample : Tryptic digest fragments
 of β-Lactoglobulin

INSULIN GENETIC VARIANTS



MacroDac™ C18 5μ 300Å 250 X 4.6mm

Mobile Phase : A: 0.1% TFA in Water
 B: 0.1% TFA in Acetonitrile
 Gradient : A/B (70:30) to A/B (68:32)
 in 20 min
 Flow Rate : 1.0mL/min
 Detection : UV @ 210nm
 Sample : 1. Bovine Insulin
 2. Human Insulin
 3. Porcine Insulin

MacroDac™ C18 5u 300A

	4.6mm (ID)	4.0mm (ID)	3.2mm (ID)	2.1mm (ID)
5cm	115231-MDC-C18	114231-MDC-C18	11d231-MDC-C18	112231-MDC-C18
10cm	125231-MDC-C18	124231-MDC-C18	12d231-MDC-C18	122231-MDC-C18
15cm	135231-MDC-C18	134231-MDC-C18	13d231-MDC-C18	132231-MDC-C18
25cm	155231-MDC-C18	154231-MDC-C18	15d231-MDC-C18	152231-MDC-C18