

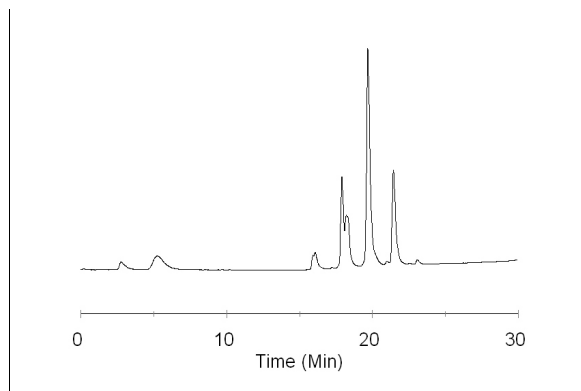
June 20, 2006

GKI-4721 GlycoSep™ C HPLC Column Notification of Change

The GlycoSep C HPLC Column (product code GKI-4721), specifically developed for resolution of neutral/charged glycans, has been replaced with a new column of different dimensions and matrix. To enable customers to distinguish between them the PPC code (product process code, signified by the first 3 digits of the batch number) has been changed from 134 to 149.

Column running conditions have been determined to minimize the differences in column performance. ProZyme has run comparative profiles on both columns using 2-AB-(Bovine Fetuin N-Linked Glycan Library), ProZyme product code GKSB-002. The profiles are shown below. Column specifications are listed in the table on the back of this page.

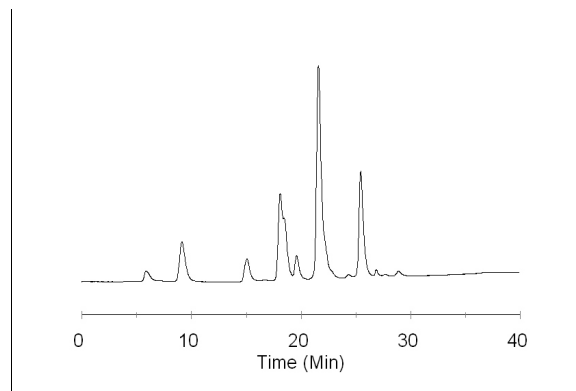
Chromatograms of GKSB-002 on GlycoSep C columns:



Former GlycoSep C Column (PPC 134)

Running conditions:

Flow rate: 0.4 ml/min
 Gradient: 0-10 min 0% B,
 10-40 min 0-100% B
 Sol A: 20% acetonitrile/80% water (v/v)
 Sol B: 20% acetonitrile/30% water/50% 500 mM
 ammonium formate pH 4.5 (v/v)
 Temp: 30°C



New GlycoSep C Column (PPC 149)

Running conditions:

Flow rate: 0.5 ml/min
 Gradient: 0-5 min 0% B,
 5-35 min 0-100% B
 Sol A: 20% acetonitrile/80% water (v/v)
 Sol B: 20% acetonitrile/30% water/50% 500 mM
 ammonium formate pH 4.5 (v/v)
 Temp: 30°C

Characteristic	PPC 134 (Former Column)	PPC 149 (New Column)
Base matrix	5 μ m polymer-coated divinyl benzene resin	10 μ m polymer-based resin
Derivatization	DEAE	DEAE
Dimensions	4.6 x 100 mm	7.5 x 75 mm
Typical flow rate	0.3 - 0.5 ml/min	0.5 - 1.0 ml/min
Maximal flow rate	1.0 ml/min	1.2 ml/min
pH compatibility	pH 1 - 13	pH 2 - 12
Temperature range	0 - 80°C	10 - 45°C
Maximum pressure (in excess of HPLC system)	211 kgf/cm ² or 3000 psi	15 kgf/cm ² or 225 psi
Solvent compatibility	organic solvent concentration \leq 20%	organic solvent concentration \leq 20%
Typical analysis buffer	water/acetonitrile with ammonium acetate or ammonium formate buffer	water/acetonitrile with ammonium formate buffer