

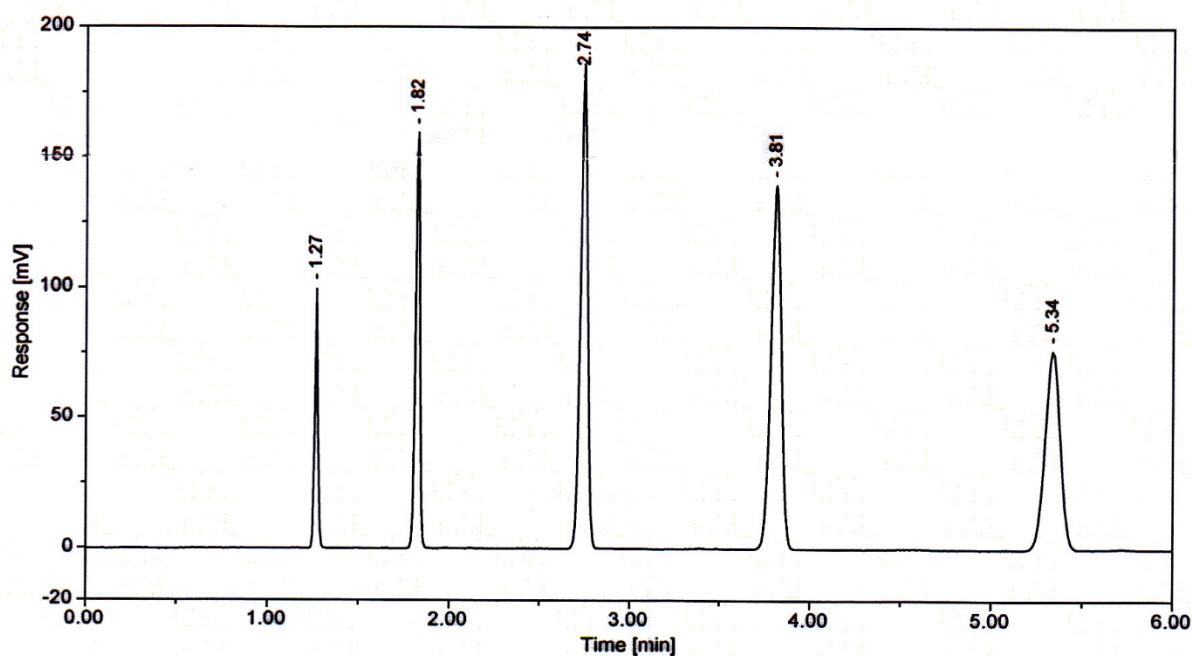
Certificate of Analysis**LudgerSep™ R1 HPLC Column for Glycan Analysis**

Cat. #: LS-R1-4.6x150

Batch: C01D-11

Size: 4.6 x 150 mm

This column conforms to the specifications given in Ludger document # LS-R1-GUIDE.

Packed Solvent 60 % acetonitrile (aq)**Test Analysis****Flow Rate** 1.25 ml / min**Eluent** Isocratic 60 % acetonitrile (aq)**Pressure** 2244 psi**Temperature** Ambient**Sample Volume** 2.5 µl**Detection** UV at 254nm

Peak No	Peak Name	Retention time (minutes)	Capacity Factor
1	Theophylline	1.27	0.00
2	p-Nitroaniline	1.82	0.44
3	Methyl Benzoate	2.74	1.17
4	Phenetole	3.81	2.01
5	o-Xylene	5.34	3.22

Efficiency o-Xylene (n/m) =130000