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## Separation of Oligosaccharides by Organic GPC Column

### Keyword:

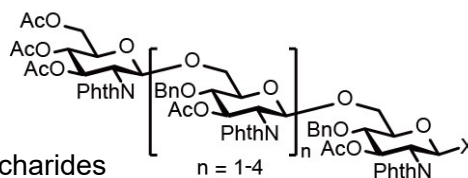
Oligosaccharides, Organic GPC Column, Size Exclusion Chromatography, Recycling Preparative HPLC

### Introduction

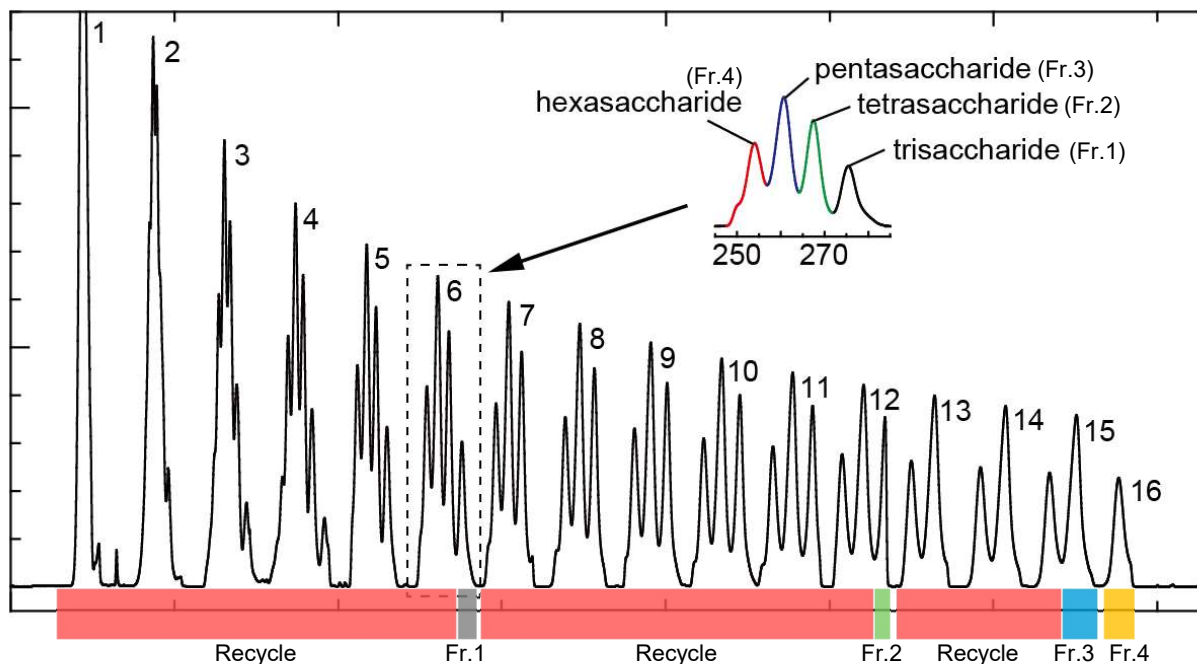
This is a study on separation of oligosaccharides by recycling preparative HPLC using organic GPC column. Oligosaccharides are normally insoluble in organic solvents, so we have modified the hydroxy groups to make them soluble in chloroform.

### Experiment and Results

Instrument : LC-9201 (Detector : UV(254 nm))  
 Column : JAIGEL-2H + JAIGEL-2H in series  
 Mobile phase : Chloroform  
 Flow rate : 3.8 ml/min  
 Sample : Mixture of di, tri, tetra, penta and hexa saccharides



We were able to fractionate trisaccharide at 6th, tetrasaccharide at 12th, pentasaccharide at 15th and hexasaccharide at 16th cycle.



### Conclusion

We were able to separate those oligosaccharides by recycling preparative HPLC using organic GPC column when the hydroxy groups were chemically modified.

Data provided by courtesy of Prof. Nogami of Kyoto University. (Currently Tottori Univ.)