

Isolation and structural characterization of oligo-saccharide from *Capsosiphon fulvescens*

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An oligo-saccharide(CF-1) was purified from commercial enzyme(Alcalase, Novozyme) extract of *Capsosiphon fulvescens* by UF membrane system(sartorius, MWCO 2000). The oligosaccharide had an average molecular weight about 900 Da. It was composed mainly of glucose(96 %) and mannose(4%). Structural features of oligo-saccharide(CF-1) were elucidated by a combination of chemical and instrumental techniques, including FT-IR, GC-MS, $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$. The results indicated that CF-1 is a mannoglucan and has a backbone consisting of (1 \rightarrow 3)-linked β -D-Glc p , 1-linked β -D-Man p .