

Structural characterisation of galactoglucomannan secreted by suspension-cultured cells of *Nicotiana plumbaginifolia*

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The structure of GGM isolated from suspension cultures of *Nicotiana plumbaginifolia* has been determined using a combination of chemical, enzymic and physical techniques. Analysis of oligosaccharides generated by digestion of GGM with endo-(1 → 4)-β-mannanase showed that the major oligosaccharide was:

D-Glcp-β-(1 → 4)-[D-Galp-β-(1 → 2)-D-Galp-α-(1 → 6)]-D-Manp-β-(1 → 4)-D-Glcp-β-(1 → 4)-[D-Galp-α-(1 → 6)]-D-Manp-β-(1 →

Structure of a sulfated xylogalactan from the calcareous red alga *Corallina pilulifera* P. et R. (Rhodophyta, Corallinaceae)

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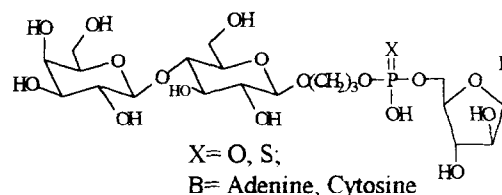
A polysaccharide from *Corallina pilulifera* consisting of D-Gal, L-Gal, 2-O-Me-L-Gal, 3-O-Me-L-Gal, 6-O-Me-D-Gal, D-Xyl, and sulfate in a molar ratio of 29:20:5:2:1:20:23 was shown to contain an agaran-like backbone of alternating 3-linked β-D-Galp and 4-linked α-L-Galp bearing single β-D-Xylp substituents at O-6 of β-D-Galp and sulfate mainly at position 2 of α-L-Galp and 6 of β-D-Galp residues.

Synthesis of lactosyl phosphate diester derivatives of nucleosides

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Derivatives of lactosyl phosphate diester and lactosyl thiophosphate diester of Ara-C and Ara-A were synthesized by condensation of 3-hydroxypropyl lactoside and a protected Ara-C or Ara-A via H-phosphonate methodology and phosphoramidite methodology, respectively.



Chemical modification of glycosaminoglycans Selective 2-sulphation of D-glucuronic acid units in heparan sulphate

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