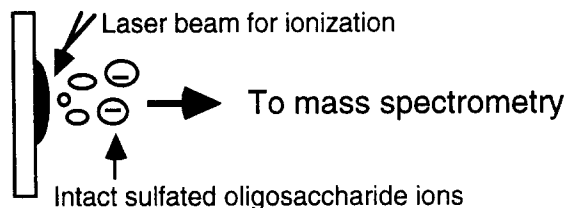


Matrix-assisted laser desorption ionization mass spectrometry for the analysis of monosulfated oligosaccharides

Yuqin Dai ^a, Randy M. Whittall ^a, Craig A. Bridges ^a, Yukihiko Isogai ^b, Ole Hindsgaul ^{a,b}, Liang Li ^{a,*}

^a Department of Chemistry, University of Alberta, Edmonton, Alberta, Canada T6G 2G2

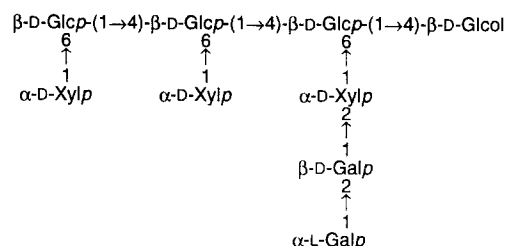
^b The Burnham Institute, La Jolla, CA 92037, USA



Structural characterization of novel L-galactose-containing oligosaccharide subunits of jojoba seed xyloglucans

Stephen Hantus, Markus Pauly, Alan G. Darvill, Peter Albersheim, William S. York ^{*}

Complex Carbohydrate Research Center and Department of Biochemistry and Molecular Biology, University of Georgia, 220 Riverbend Road, Athens, GA 30602-4712, USA

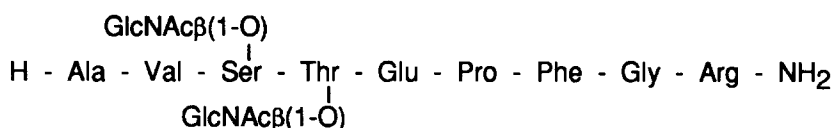


An N-acetylglucosamine containing glycopeptide — synthesis and structure assignment

Uttam K. Saha ^a, Lee S. Griffith ^b, Jörg Rademann ^a, Armin Geyer ^a, Richard R. Schmidt ^{a,*}

^a Fakultät Chemie, Universität Konstanz, Postfach 5560 M 725, D-78457 Konstanz, Germany

^b Institut für Tierphysiologie und Anatomie, Universität Bonn, D-53115 Bonn, Germany

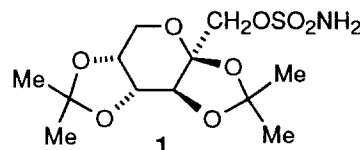


Synthesis of hydroxylated derivatives of topiramate, a novel antiepileptic drug based on D-fructose: Investigation of oxidative metabolites

Samuel O. Nortey, Wu-Nan Wu, Bruce E. Maryanoff ^{*}

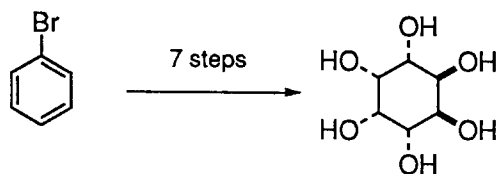
The R.W. Johnson Pharmaceutical Research Institute, Spring House, PA 19477, USA

The four possible monohydroxylated-methyl metabolites of topiramate (**1**) were synthesized and compared with isolated materials, leading to proposed structures for two metabolites.



A practical multigram-scale synthesis of *allo*-inositol

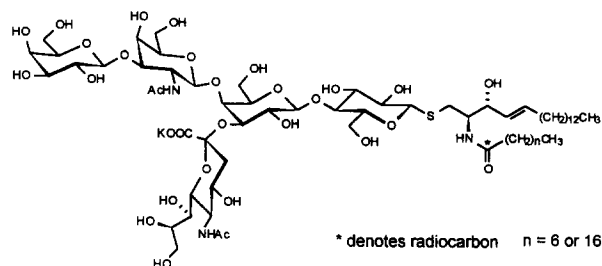
Michel Desjardins, Larry E. Brammer Jr., Tomas Hudlicky *
Department of Chemistry, University of Florida, Gainesville, FL 32611-7200, USA



Synthesis of ganglioside GM1 containing a thioglycosidic bond to its labeled ceramide(s). A facile synthesis starting from natural gangliosides

Günter Schwarzmann *, Petra Hofmann, Ute Pütz
Kekulé-Institut für Organische Chemie und Biochemie der Universität Bonn, Gerhard-Domagk-Strasse 1, D-53121 Bonn, Germany

The title compound contains a labeled octanoyl or octadecanoyl chain in its ceramide residue and is prepared via monosialogangliotetraose obtained from ganglioside GM1.



The system of sulfated α -(1 $\rightarrow$ 3)-linked D-mannans from the red seaweed *Nothogenia fastigiata*: Structures, antiherpetic and anticoagulant properties

Adriana A. Kolender ^a, Carlos A. Pujol ^b, Elsa B. Damonte ^b, María C. Matulewicz ^a, Alberto S. Cerezo ^{a,*}
^a Departamento de Química Orgánica (CIHIDECAR-CONICET), Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Pabellón 2, Ciudad Universitaria, 1428 Buenos Aires, Argentina
^b Laboratorio de Virología, Departamento de Química Biológica, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Pabellón 2, Ciudad Universitaria, 1428 Buenos Aires, Argentina

Two xylomannans from *Nothogenia fastigiata* follow the structural pattern of other xylomannans of this seaweed, i.e. α -(1 $\rightarrow$ 3)-linked D-mannans 2- and 6-sulfated and having single stubs of β -(1 $\rightarrow$ 2)-linked D-xylose. Both are obtained as complexes with a galactan and a xylan also present in this seaweed. The antiherpetic and the anticoagulant properties of all the xylomannans of the system are reported.

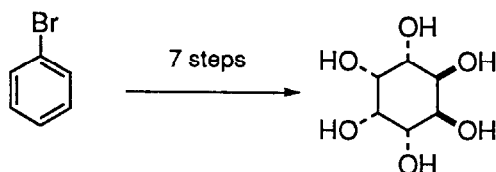
Novel alginate lyases from marine bacterium *Alteromonas* sp. strain H-4

Tomoo Sawabe *, Miwa Ohtsuka, Yoshio Ezura
Department of Food Science and Technology, Faculty of Fisheries, Hokkaido University 3-1-1 Minato-cho, Hakodate 041, Japan
New type of alginate lyase showing no preference for degradation of either type of alginate blocks, polyM and polyG, are found out.

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Michel Desjardins, Larry E. Brammer Jr., Tomas Hudlicky *

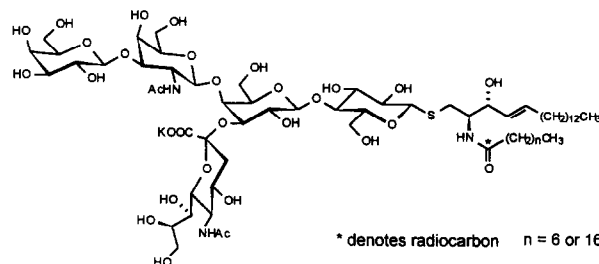
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