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## Carbohydrate Research





### Carbohydrate Research Vol. 372, 2013

### **Contents**

#### **FULL PAPERS**

#### **Synthesis**

#### Theoretical study of the mutarotation of erythrose and threose: acid catalysis

Luis Miguel Azofra\*, Ibon Alkorta, José Elguero

pp 1-8

## (i)<sup>+</sup>

## A convenient synthesis of N-linked diglycose derivatives based on one-pot tandem Staudinger/aza-Wittig/reduction and biological evaluation

pp 15-22

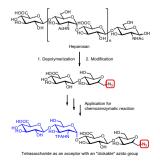
Pingzhu Zhang, Yinbo Li, Ming Liu, Yanfei Wang, Cuicui Li, Donglai Ma, Hua Chen, Kerang Wang, Xiaoliu Li\*, Jinchao Zhang

A series of novel N-linked diglycose derivatives were conveniently and directly synthesized based on the key step of one-pot tandem Staudinger/aza-Wittig/reduction reaction followed by deprotection. Some compounds exhibited good cytotoxicity to A-549.

### Preparation and application of a 'clickable' acceptor for enzymatic synthesis of heparin oligosaccharides

pp 30-34

Chao Cai, Kristi Edgar, Jian Liu, Robert J. Linhardt\*

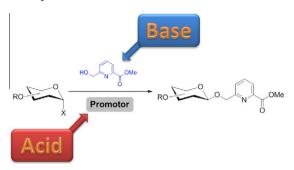




#### Glycosylation of 'basic' alcohols: methyl 6-(hydroxymethyl)picolinate as a case study

Shuai Wang, Dominique Lafont, Jani Rahkila, Benjamin Picod, Reko Leino, Sébastien Vidal\*

pp 35-46



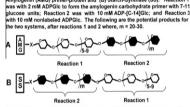


#### **Biochemistry and Enzymes**

### Tests for the mechanism of starch biosynthesis: de novo synthesis or an amylogenin primer synthesis

Rupendra Mukerjea, John F. Robyt\*

pp 55-59

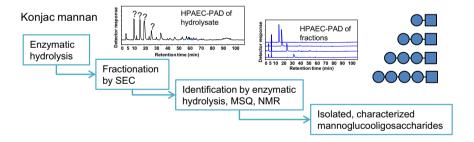


Both products can be removed from the proteins, reduced with NaBH4, and acid hydrolyzed. Product A can never give C-14-D-glucitot, while B can give C-14-D-glucitot and after Reaction 3. C-14-D-glucitot is decreased.

# Hydrolysis of konjac glucomannan by *Trichoderma reesei* mannanase and endoglucanases Cel7B and Cel5A for the production of glucomannooligosaccharides

pp 60-68

Atte Mikkelson, Hannu Maaheimo, Terhi K. Hakala\*

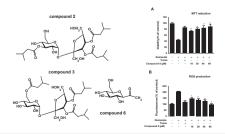


#### Characterization, Natural products

# $Carbohydrate\ derivatives\ from\ the\ roots\ of\ \textit{Brassica\ rapa\ } ssp.\ \textit{campestris\ } and\ their\ effects\ on\ ROS\ production\ and\ glutamate-induced\ cell\ death\ in\ HT-22\ cells$

pp 9-14

Qian Wu, Jin-Gyeong Cho, Dong-Sung Lee, Dae-Young Lee, Na-Young Song, Youn-Chul Kim, Kyung-Tae Lee, Hae-Gon Chung, Myung-Sook Choi, Tae-Sook Jeong, Eun-Mi Ahn, Geum-Soog Kim, Nam-In Baek\*



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