

## Accepted Manuscript

Title: Methylation analysis of polysaccharides: Technical Advice

Authors: Ian M. Sims, Susan M. Carnachan, Tracey J. Bell, Simon F.R. Hinkley



PII: S0144-8617(17)31492-3  
DOI: <https://doi.org/10.1016/j.carbpol.2017.12.075>  
Reference: CARP 13137

To appear in:

Received date: 24-11-2016  
Revised date: 12-12-2017  
Accepted date: 28-12-2017

Please cite this article as: Sims, Ian M., Carnachan, Susan M., Bell, Tracey J., & Hinkley, Simon F.R., Methylation analysis of polysaccharides: Technical Advice. *Carbohydrate Polymers* <https://doi.org/10.1016/j.carbpol.2017.12.075>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Methylation analysis of polysaccharides: Technical Advice

**Running title:** Technical advice on methylation analysis

Ian M. Sims\*, Susan M. Carnachan, Tracey J. Bell and Simon F.R. Hinkley

*The Ferrier Research Institute, Victoria University of Wellington, PO Box 33-436, Petone  
5046, New Zealand*

Susan M. Carnachan: Susie.Carnachan@vuw.ac.nz

Tracey J. Bell: Tracey.Bell@vuw.ac.nz

Simon F.R. Hinkley Simon.Hinkley@vuw.ac.nz

### **\*Corresponding author:**

Dr. Ian M. Sims

Tel: +64 4 4630062

ian.sims@vuw.ac.nz

### Highlights

- Technical advice on glycosyl linkage methodology is provided; example spectra are shown; data interpretation methodology is described; guidelines as to experimental data for publications are proposed.

### **Abstract**

Glycosyl linkage (methylation) analysis is used widely for the structural determination of oligo- and poly-saccharides. The procedure involves derivatisation of the individual component sugars of a polysaccharide to partially methylated alditol acetates which are analysed and quantified by gas chromatography-mass spectrometry. The linkage positions for each component sugar can be determined by correctly identifying the partially methylated

Download English Version:

<https://daneshyari.com/en/article/7783202>

Download Persian Version:

<https://daneshyari.com/article/7783202>

[Daneshyari.com](https://daneshyari.com)