

SUPPLEMENTARY MATERIAL

Neutral Polysaccharide from the Leaves of *Pseuderanthemum carruthersii*: Presence of 3-O-Methyl Galactose and Anti-Inflammatory Activity in LPS-Stimulated RAW 264.7 Cells

Vo Hoai Bac ^{1,2,3,*}, Berit Smestad Paulsen ², Le Van Truong ^{1,3}, Andreas Koschella ⁴, Tat Cuong Trinh ⁵, Christian Winther Wold ², Suthajini Yogarajah ² and Thomas Heinze ⁴

¹ Institute of Biotechnology, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Hanoi Vietnam

² Department of Pharmacy, Section of Pharmaceutical Chemistry, University of Oslo, 0316 Oslo, Norway

³ Graduate University of Science and Technology, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Hanoi, Vietnam

⁴ Friedrich Schiller University of Jena, Institute for Organic Chemistry and Macromolecular Chemistry, Center of Excellence for Polysaccharide Research, Humboldtstrasse, D-07743 Jena, Germany

⁵ Key Laboratory for Enzyme and Protein Technology, Hanoi University of Science, Hanoi, Vietnam

* Correspondence: vhbac@ibt.ac.vn; Tel.: +84-2438360853; Fax: +84-2438363144

The mass spectrum of 3-O-Methyl Galactose

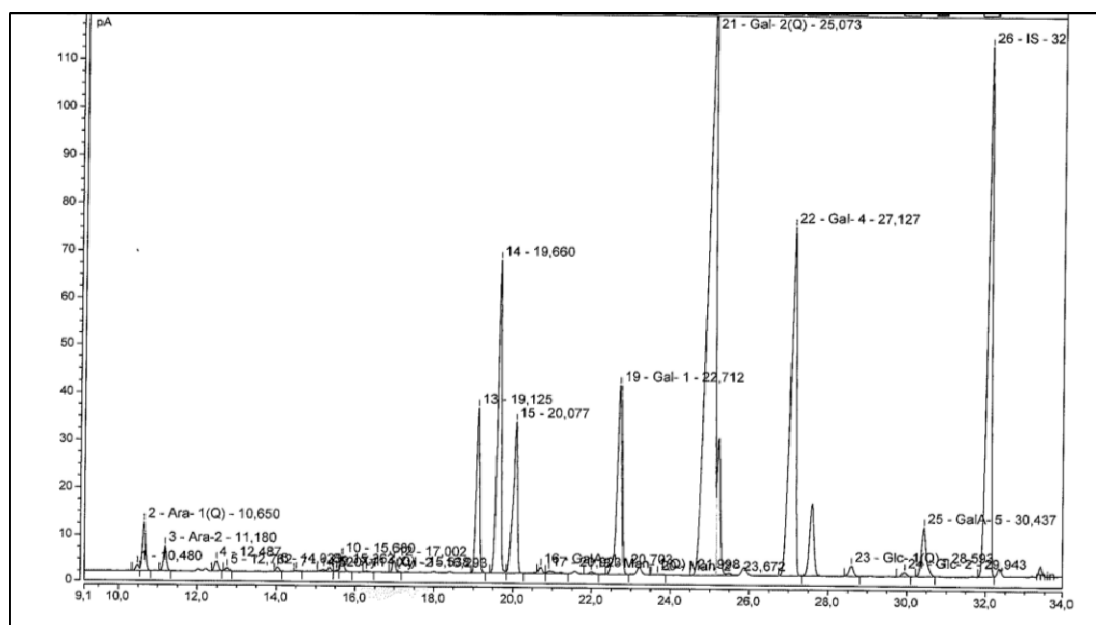


Figure S1. This trace is the GC trace after methanolysis of PCA1 and the three peaks 13, 14 and 15 are representing the TMS derivatives of the methyl-glycoside of 3-O-methylgalactose.

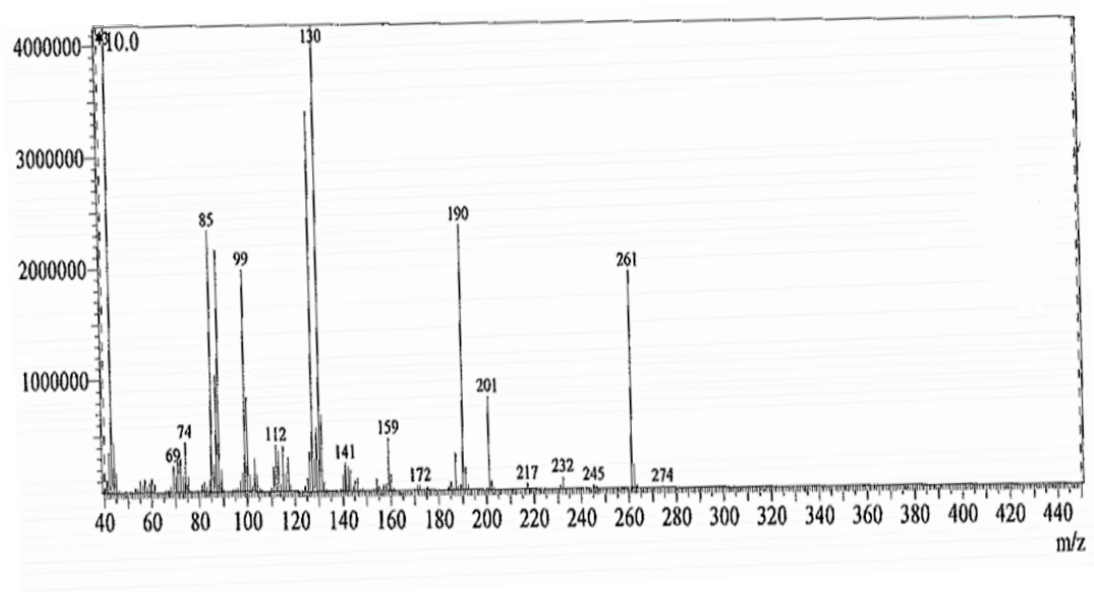


Figure S2. GC-MS of PCA1 for identity 3-O-methylgalactose (primary fragments: 190, 261)

Line#:1 R.Time:20.883(Scan#:1907)
 MassPeaks:175 BasePeak:132.20(4473852)
 RawMode:Single 20.883(1907)
 BG Mode:None

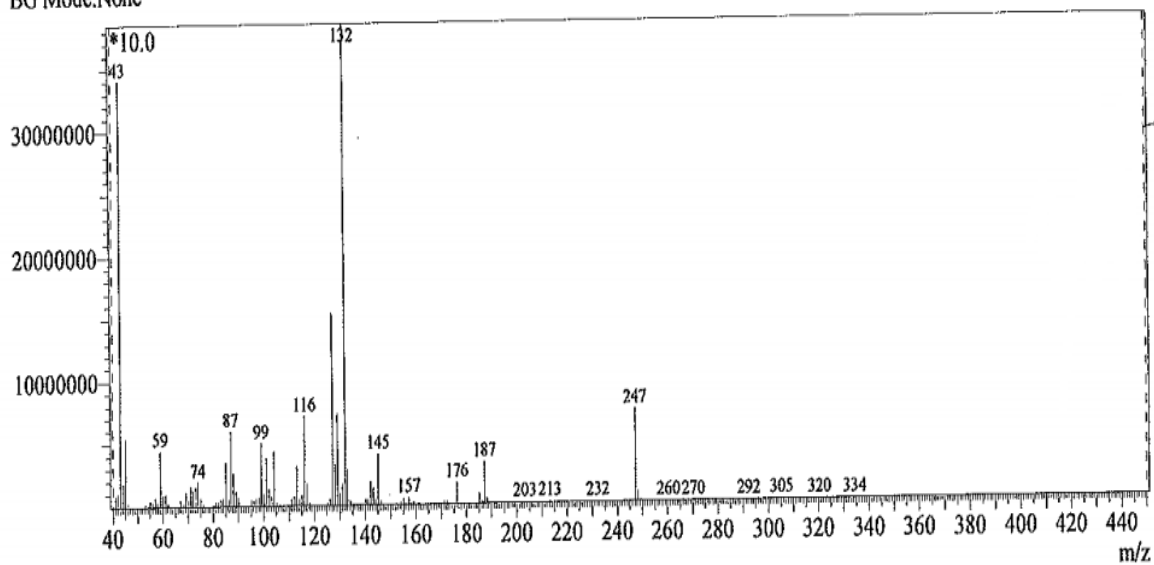


Figure S3. The mass spectrum of ethylated 3-O-methylgalactose being 1,4 linked, i.e., the ms of 1,4,5 tri-O-acetyl 2,6 di-O-ethyl 3-O-methylgalactitol

MassPeaks:189 BasePeak:132.20(7335731)
RawMode:Single 21.275(1954)
BG Mode:None

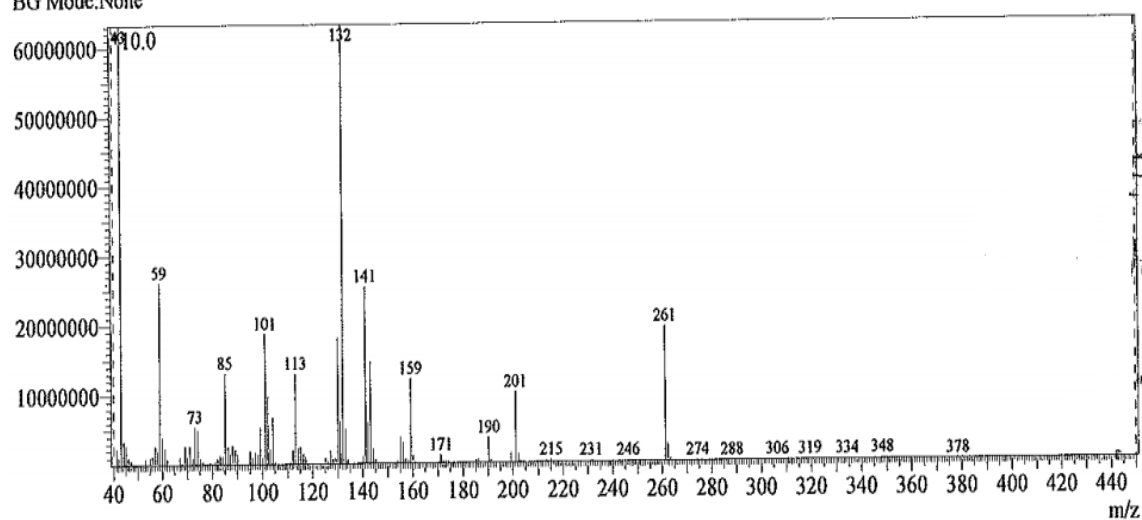


Figure S4. The mass spectrum of the ethylated 1,4 linked galactose, i.e., 1,4,5 tri-O-acetyl 2,3,6 tri-O-ethylgalactitol.

Both products obtained after ethylation, hydrolysis, reduction with sodium borodeuteride and acetylation to give the products having deuterium on C1.