

Analysis of polar lipid fraction of *Pinus halepensis* Mill. seeds from North Algeria

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Description

Lipid fraction from *Pinus halepensis* Mill. seeds was extracted and separated by column chromatography (CC). The seeds were found to be rich in lipids (35.89% of the crude seed). Different classes of glycolipids (GLs) and phospholipids (PLs) were then separated and identified by liquid chromatography-mass spectrometry (LC/MS). A relatively high level of GLs was found compared to the PLs content. Four classes of glycolipids were detected: Esterified steryl glucosides (ESG), monogalactosyldiacylglycerols (MGDG), cerebrosides (Cer), and digalactosyldiacylglycerols (DGDG). Six classes of phospholipids were also identified: Phosphatidic acid (PA), phosphatidyl ethanolamine (PE), phosphatidyl inositol (PI), phosphatidyl serine (PS), phosphatidyl glycerol (PG) and diphosphatidyl glycerol (DPG). The method of quantitative determination of the sugars that make up the classes of glycolipids is described.

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