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# HOSPICE, HOME HEALTH, AND INFORMAL CARE

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#### Abstract

Novel representative of sugar-based biopolymers is the main chemical constit-uent of high molecular (>1000 kDa) water-soluble preparations from medicinal plants of Symphytum asperum, S. caucasicum, S. officinale, S. grandiflorum, Anchusa italica, Cynoglossum officinale and Borago officinalis (Boraginaceae). According to data of liquid-state 1H, 13C NMR, 2D 1H/13C HSQC, 2D DOSY and solid-state 13C NMR spectra this biopolymer was found to be poly[oxy-1-carboxy-2-(3,4-dihydroxyphenyl)ethylene] or poly[3-(3,4-dihydroxy-phenyl)glyceric acid] (PDPGA) with the 3-(3,4-dihydroxyphenyl)glyceric acid residue as the repeating unit. The polyoxyethylene chain is the backbone of this polymer molecule and 3,4-dihydroxyphenyl and carboxyl groups are regular substituents at two carbon atoms in the chain. PDPGA as 3,4-dihydroxyphenyl derivative of poly(2,3-glyceric acid ether) belongs to a rare class of poly(sugar acids) as well. Poly(2,3-glyceric acid ether) chain is the backbone of this polymer and 3,4-dihydroxyphenyl groups are regular substituents at carbon atoms in the chain.

## **Biography:**

Supporting and supervising the analytical activities of the R&D Analytical Group Analytical support of Human Milk Oligosaccharides production Development and implementation of new analytical methods and techniques for identification and quantitation of HMOs.

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