

Accepted Manuscript

Title: Simple and effective purification approach to dissociate mixed water-insoluble α - and β -D-glucans and its application on the medicinal mushroom *Fomitopsis betulina*

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PII: S0144-8617(18)30903-2
DOI: <https://doi.org/10.1016/j.carbpol.2018.08.004>
Reference: CARP 13900

To appear in:

Received date: 5-3-2018
Revised date: 9-7-2018
Accepted date: 2-8-2018

Please cite this article as: de Jesus LI, Smiderle FR, Cordeiro LMC, de Freitas RA, Van Griensven LJLD, Iacomini M, Simple and effective purification approach to dissociate mixed water-insoluble α - and β -D-glucans and its application on the medicinal mushroom *Fomitopsis betulina*, *Carbohydrate Polymers* (2018), <https://doi.org/10.1016/j.carbpol.2018.08.004>

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Simple and effective purification approach to dissociate mixed water-insoluble α - and β -D-glucans and its application on the medicinal mushroom *Fomitopsis betulina*

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HIGHLIGHTS

- A mixture of water-insoluble glucans was isolated from fruiting bodies of *Piptoporus betulinus*.
- These glucans were purified based on their different solubility in diluted aqueous NaOH solution.
- The insoluble glucan was defined as a linear (1→3)- α -D-glucan.
- The soluble glucan was defined as a branched (1→3)(1→6)- β -D-glucan.

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