Accepted Manuscript

A critical review on production and industrial applications of beta-glucans

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PII: S0268-005X(15)30012-6

DOI: 10.1016/j.foodhyd.2015.07.003

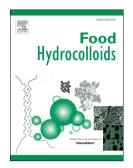
Reference: FOOHYD 3059

To appear in: Food Hydrocolloids

Received Date: 25 April 2015
Revised Date: 30 June 2015
Accepted Date: 1 July 2015

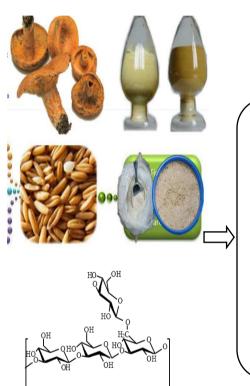
Please cite this article as: Zhu, F., Du, B., Xu, B., A critical review on production and industrial applications of beta-glucans, *Food Hydrocolloids* (2015), doi: 10.1016/j.foodhyd.2015.07.003.

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Graphical abstract

Production and industrial applications of β -glucans.



Extraction:

Hot water extraction
Hot alkaline extraction
Accelerated solvent extraction
Ultrasound-assisted extraction
Microwave-assisted extraction
Superheated water extraction
Reflux extraction
Enzyme as elicitors extraction
Acidic extraction
Sequential extraction
Steam explosion

Isolation and purification:

Isoelectric precipitation
Precipitation with ammonium
sulfate
Precipitation with ethanol
Coagulate and filtration
Affinity chromatography on
cellulose column
Anion-exchange chromatography
Sephadex column
chromatography

Cellulose column

Industrial applications:

Foods
Medicines
Cosmetics
Feeds
Other health

products

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