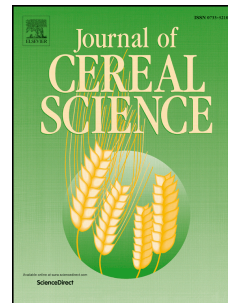


Accepted Manuscript

Influence of the extraction solvent on phenolic content, antioxidant, antimicrobial and antimutagenic activities of brewers' spent grain

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PII: S0733-5210(17)30851-2

DOI: [10.1016/j.jcs.2018.03.006](https://doi.org/10.1016/j.jcs.2018.03.006)

Reference: YJCRS 2545

To appear in: *Journal of Cereal Science*

Received Date: 17 October 2017

Revised Date: 20 February 2018

Accepted Date: 4 March 2018

Please cite this article as: Socaci, Sonia.Ancuța., Fărcaș, A.C., Diaconeasa, Zorița.Maria., Vodnar, D.C., Rusu, B., Tofană, M., Influence of the extraction solvent on phenolic content, antioxidant, antimicrobial and antimutagenic activities of brewers' spent grain, *Journal of Cereal Science* (2018), doi: 10.1016/j.jcs.2018.03.006.

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1 **Influence of the extraction solvent on phenolic content,**
2 **antioxidant, antimicrobial and antimutagenic activities of**
3 **brewers' spent grain**

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17
18 Keywords: antimicrobial activity, antimutagenic activity, brewers' spent grain, phenolic
19 compounds.

20
21 Abbreviations:

22 4-NPD - 4-nitro-o-phenylenediamine; ABTS - 2,2'-azinobis-(3-ethylbenzothiazoline-6-sulfonic acid);
23 ANOVA - analysis of variance; BE-1 - methanol; BE-2 - methanol: water (60/40, v/v); BE-3 -
24 methanol: water (40/60, v/v); BE-4 - ethanol; BE-5 - ethanol: water (60/40, v/v); BE-6 - ethanol:
25 water (40/60, v/v); BE-7 - acetone; BE-8 - acetone: water (60/40, v/v); BE-9 - acetone: water (40/60,
26 v/v); BE-10 - hexane; BE-11 - ethyl acetate; BE-12 - water; BSG - brewers' spent grain; CFU - colony
27 forming units

28 DMSO - dimethyl sulfoxide; DPPH - 2,2-diphenyl-1-picrylhydrazyl; DW - dry weight; GAE - gallic
29 acid equivalents; HPLC-ESI-MS - high-performance liquid chromatography - electrospray ionization
30 mass spectrometry; MBC - minimum bactericidal concentration; MFC - minimum fungicidal
31 concentration; MIC - minimum inhibitory concentration; QE - quercetin equivalents; SD - standard
32 deviation; TSB - tryptic soy broth; v/v - volume per volume.

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