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(54) Title: (ARABINO)XYLAN OLIGOSACCHARIDE PREPARATION

(57) Abstract: The present invention relates to preparations comprising (arabino)xylan oligosaccharides with average degree of polymerisation between 4 and 10 and average degree of arabinose substitution between 0.15 and 0.35, which beneficially modulate the intestinal flora, such preparation comprising both xylo- and arabinoxyloligosaccharides. Preferably, the arabinoxyloligosaccharides are substituted in part by hydroxycinnamic acids and exert antioxidant effects. Furthermore, it is preferred that the preparations according to the present invention have a nitrogen content below 0.16% (w/w) in order to ensure good organoleptic and colour properties, particularly upon heating said preparations. In addition, food, beverage and nutritional supplement products comprising the preparations are provided as well as methods to prepare the said preparations.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A21D A23L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, FSTA, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SWENNEN KATRIEN ET AL: "Large-scale production and characterisation of wheat bran arabinoxyloligosaccharides" JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, WILEY & SONS, CHICHESTER, GB, vol. 86, no. 11, 1 August 2006 (2006-08-01), pages 1722-1731, XP002457409 ISSN: 0022-5142 abstract page 1, column 1, paragraph 1 - page 1, column 2, last paragraph; tables 1-3 page 4, column 2, paragraph 1 ----- -/--	1-5, 11-17, 25-27

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SWENNEN ET AL: "Ultrafiltration and ethanol precipitation for isolation of arabinoxylooligosaccharides with different structures" 1 December 2005 (2005-12-01), CARBOHYDRATE POLYMERS, APPLIED SCIENCE PUBLISHERS, LTD. BARKING, GB, PAGE(S) 283 - 292 , XP005193125 ISSN: 0144-8617 the whole document	1-5, 11-17, 25-27
P,X	CLOETENS L, DELAEDT Y, OLLEVIER F, BROEKAERT W, COURTIN C, DELCOUR J, RUTGEERTS P, VERBEKE K: "W1382 The bifidogenic potential of arabinoxylo-oligosaccharides in healthy volunteers depends on the degree of polymerisation" GASTROENTEROLOGY, vol. 134, no. 4, 1 April 2008 (2008-04-01), page A-692, XP002547077 the whole document	1-5, 11-17, 25-27
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A	YAMADA H ET AL: "STRUCTURE AND PROPERTIES OF OLIGOSACCHARIDES FROM WHEAT BRAN" 1 July 1993 (1993-07-01), CEREAL FOODS WORLD, AMERICAN ASSOCIATION OF CEREAL CHEMISTS, INC, US, PAGE(S) 490 - 492 , XP001018255 ISSN: 0146-6283 cited in the application the whole document	1-27