

Title (en)

METHOD FOR PRODUCING GALACTOOLIGOSACCHARIDES FROM LACTOSE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON GALAKTOOLIGOSACCHARIDEN AUS LACTOSE

Title (fr)

PROCÉDÉ DE PRODUCTION DE GALACTO-OLIGOSACCHARIDES À PARTIR DE LACTOSE

Publication

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Application

EP 17738066 A 20170112

Priority

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Abstract (en)

[origin: WO2017120678A1] Methods are disclosed for the enzymatic preparation of galactooligosaccharide (GOS) from lactose using two different microbial lactase enzymes to maximize the extent of transgalactosylation during the digestion of lactose. Methods are also disclosed for avoiding the turbidity of a solution comprising GOS and lactose as it is adjusted for incubation with a yeast neutral lactase.

IPC 8 full level

C07H 1/00 (2006.01); **C07H 3/04** (2006.01); **C07H 3/06** (2006.01); **C08B 37/00** (2006.01); **C12N 9/38** (2006.01); **C12N 9/42** (2006.01); **C12P 19/00** (2006.01); **C12P 19/14** (2006.01)

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Citation (search report)

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- [Y] CN 104975056 A 20151014 - BAOLINGBAO BIOLOGY CO LTD & DATABASE WPI Week 201617, Derwent World Patents Index; AN 2015-695119
- [Y] WO 2015012597 A1 20150129 - NEO CREMAR CO LTD [KR] & EP 2982760 A1 20160210 - NEO CREMAR CO LTD [KR]
- [A] C. VERA ET AL.: "Synthesis of galacto-oligosaccharides by beta-galactosidase from *Aspergillus oryzae* using partially dissolved and supersaturated solution of lactose", ENZYME AND MICROBIAL TECHNOLOGY, vol. 50, 2012, pages 188 - 194, XP055505240, DOI: 10.1016/j.enzmictec.2011.12.003
- [A] A. PARK ET AL.: "Galacto-oligosaccharide production using microbial beta-galactosidase: current state and perspectives", APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol. 85, no. 5, 27 November 2009 (2009-11-27), pages 1279 - 1286, XP019778620, ISSN: 1432-0614
- See references of WO 2017120678A1

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