

Title (en)

ENZYMATIC PRODUCTION OF LEVAN-BASED, PREBIOTIC FRUCTOOLIGOSACCHARIDES

Title (de)

ENZYMATISCHE HERSTELLUNG VON LEVAN-BASIERTEN, PRÄBIOTISCHEN FRUCTOOLIGOSACCHARIDEN

Title (fr)

PRODUCTION ENZYMATIQUE DE FRUCTO-OLIGOSACCHARIDES PRÉBIOTIQUES À BASE DE LÉVANE

Publication

**EP 3990655 A1 20220504 (EN)**

Application

**EP 20734888 A 20200623**

Priority

- EP 19182814 A 20190627
- EP 2020067447 W 20200623

Abstract (en)

[origin: EP3757209A1] The present invention relates to a method for preparing (levan-based) fructooligosaccharides (FOS) using at least one (genetically modified) host organism. Through the production of a levansucrase and an endolevanase in the host organism, the enzymes can be used to convert the substrate sucrose into FOS. Additionally, the invention is directed to fructooligosaccharides obtainable by the method according to the invention; a specific expression vector, a specific genetically modified host organism, and a specific cell extract or culture supernatant, which are usable for the production of FOS; and a prebiotic or food supplement comprising or consisting of the FOS. Finally, the invention relates to a method for preparing levan using a levansucrase.

IPC 8 full level

**C12P 19/04** (2006.01); **A23L 29/30** (2016.01); **A23L 33/125** (2016.01); **A61K 31/733** (2006.01); **C12N 9/10** (2006.01); **C12N 9/24** (2006.01); **C12P 19/14** (2006.01); **C12P 19/18** (2006.01)

CPC (source: EP)

**C12N 9/1055** (2013.01); **C12N 9/2402** (2013.01); **C12P 19/04** (2013.01); **C12P 19/14** (2013.01); **C12P 19/18** (2013.01); **C12Y 204/0101** (2013.01); **C12Y 302/01065** (2013.01)

Citation (search report)

See references of WO 2020260249A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3757209 A1 20201230**; EP 3990655 A1 20220504; WO 2020260249 A1 20201230

DOCDB simple family (application)

**EP 19182814 A 20190627**; EP 2020067447 W 20200623; EP 20734888 A 20200623