



(11) **EP 2 186 886 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 30

(51) Int Cl.:
C12N 9/20 (2006.01) C12P 7/64 (2006.01)

(48) Corrigendum issued on:
12.06.2013 Bulletin 2013/24

(45) Date of publication and mention
of the grant of the patent:
08.08.2012 Bulletin 2012/32

(21) Application number: **09004164.1**

(22) Date of filing: **18.01.2006**

(54) **Process for production of purified lipase**
Verfahren zur Herstellung von gereinigter Lipase
Procédé de purification de lipase

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI
SK TR**

(30) Priority: **19.01.2005 JP 2005011770**
19.01.2005 JP 2005011771

(43) Date of publication of application:
19.05.2010 Bulletin 2010/20

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
06711875.2 / 1 842 908

(73) Proprietor: **The Nisshin OilliO Group, Ltd.**
Tokyo 104-8285 (JP)

(72) Inventors:
• **Negishi, Satoshi**
Yokosuka-shi
Kanagawa 239-0832 (JP)
• **Suzuki, Junko**
Yokosuka-shi
Kanagawa 239-0832 (JP)
• **Sakurai, Chika**
Yokosuka-shi
Kanagawa 239-0832 (JP)

- **Arimoto, Shin**
Yokosuka-shi
Kanagawa 239-0832 (JP)
- **Uehara, Hidetaka**
Yokosuka-shi
Kanagawa 239-0832 (JP)
- **Hirose, Tadashi**
Yokosuka-shi
Kanagawa 239-0832 (JP)
- **Yamauchi, Yoshie**
Yokosuka-shi
Kanagawa 239-0832 (JP)
- **Arai, Yuri**
Yokosuka-shi
Kanagawa 239-0832 (JP)
- **Suganuma, Tomomi**
Yokosuka-shi
Kanagawa 239-0832 (JP)

(74) Representative: **Bawden, Peter Charles**
Bawden & Associates
4 The Gatehouse
2 High Street
Harpenden,
Hertfordshire AL5 2TH (GB)

(56) References cited:
EP-A- 1 795 591 WO-A-90/04033
JP-A- 8 089 265

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 2 186 886 B8

- | | |
|--|---|
| <ul style="list-style-type: none"> • MOGI K-I ET AL: "Transesterification reaction between medium- and long-chain fatty acid triglycerides using surfactant-modified lipase" BIOTECHNOLOGY AND BIOENGINEERING, WILEY & SONS, HOBOKEN, NJ, US, vol. 67, no. 5, 5 March 2000 (2000-03-05), pages 513-519, XP003004057 ISSN: 0006-3592 • TAKAHASHI K ET AL: "LIPASE MADE ACTIVE IN HYDROPHOBIC MEDIA" 1988, JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY, VOL. 65, NR. 6, PAGE(S) 911-916 , XP002570823 ISSN: 0003-021X * page 915 - page 916; table 8 * | <ul style="list-style-type: none"> • NEGISHI SATOSHI ET AL: "Activation of powdered lipase by cluster water and the use of lipase powders for commercial esterification of food oils" ENZYME AND MICROBIAL TECHNOLOGY, STONEHAM, MA, US, vol. 32, no. 1, 2 January 2003 (2003-01-02), pages 66-70, XP002456965 ISSN: 0141-0229 |
|--|---|