

CLAIMS

1. A non-sporulating *Bacillus* cell for the production of a fucosylated oligosaccharide, wherein said cell has been genetically engineered to possess a lactose permease, a GDP-fucose biosynthesis pathway and a fucosyltransferase.
5
2. The *Bacillus* cell according to claim 1, wherein the sporulation has been impaired by deletion or functional inactivation of one or more of the genes encoding Spo0A, sigma E and sigma F.
3. The *Bacillus* cell according to claim 1 or 2, wherein the lactose permease is *E. coli* LacY or a functional variant thereof.
10
4. The *Bacillus* cell according to any one of claims 1 to 3, wherein the GDP-fucose biosynthesis pathway is a *de novo* GDP-fucose biosynthesis pathway and/or a salvage pathway.
5. The *Bacillus* cell according to any one of claims 1 to 4, wherein the fucosyltransferase is a lactose-accepting fucosyltransferase, preferably a fucosyltransferase selected from the group of α -1,2-fucosyltransferases and α -1,3-fucosyltransferases.
15
6. The *Bacillus* cell according to any one of claims 1 to 5, wherein said *Bacillus* cell lacks any β -galactosidase activity or possesses reduced β -galactosidase activity as compared to a wild-type progenitor *Bacillus* cell of the same species.
20
7. The *Bacillus* cell according to claim 6, wherein the *Bacillus* cell has been genetically engineered by deletion or functional inactivation of at least one of the genes selected from the group consisting of *yesZ* and *ganA*.
8. The *Bacillus* cell according to any one of claims 1 to 7, wherein said *Bacillus* cell is a *Bacillus subtilis* cell.
25
9. Use of a *Bacillus* cell according to any one of claims 1 to 8 for the production of a fucosylated oligosaccharide.

10. A method for the production of a fucosylated oligosaccharide,
 - providing a non-sporulating *Bacillus* cell as defined in any one of claims 1 to 8;
 - cultivating said *Bacillus* cell in a medium and under conditions that are permissive for the production of a fucosylated oligosaccharide; and optionally
 - retrieving the fucosylated oligosaccharide from the medium and/or the *Bacillus* cell.
11. The method according to claim 10, wherein the medium contains lactose.
12. The method according to claim 10 or 11, wherein the medium contains L-fucose.
13. A fucosylated oligosaccharide produced by a method according to any one of claims 10 to 12.
14. Use of a fucosylated oligosaccharide according to claim 13 for the manufacture of a nutritional composition, preferably of an infant formula.
15. A nutritional composition containing a fucosylated oligosaccharide according to claim 13.