Lactate production

Effective lactate producing LAB mutant

Active substance: Mutant bacteria, TMB5003, of the wild strain Lactococcus lactis spp. lactis 19435 .

Development stage: Lead optimization

Unmet need: Yield, productivity and purity

Benefits:

The mutant strain is able to produce lactate twice as fast as the wild type strain under non-limiting glucose conditions.

Areas of implementation:

High yield production of lactate enabled by the mutant can be used in medicine and food technology as well as in general chemical industry, including polymer technology. Lactic acid is of interest to produce biocompatible and decomposable polymers, polylactic acid (PLA).

Market:

PLA consumption during 2007 was 60 000 tons and the world market for lactic acid is expected to reach a quarter of a billion tons by 2012.

Intellectual property:

Granted USA, Germany, France, Great Britain, Italy

Strategy:

Out-licensing, spin-out

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