

Lactulose Shot - Lactulose-containing, Prebiotic, Milk-based Food Product for Intestinal Health



Technologie-Lizenz-Büro
der Baden-Württembergischen
Hochschulen GmbH

Lactulose-containing food product or also pharmaceutical product with prebiotic effect, which promotes or regulates intestinal health

- High content of lactulose
- Low content of sugar and energy
- Beverage, no tablet
- Volume of lactulose shot about 150 ml or less
- Biotechnologically produced from whey or milk powder

Fields of application

Lactulose-containing food product or also pharmaceutical product with prebiotic effect, which promotes or regulates intestinal health.

Background

The worldwide demographic development, especially in Europe, shows without doubt an increasing aging population. In Europe, the proportion of people over 65 was just under 22% in 2020, while in Germany it was 23% in the same year. In addition, well over 2 million people in Germany are recognized as needing long-term care. The proportion of patients with longer hospital stays is rising, too. For many of these people, taking lactulose would be helpful. All of the above mentioned figures are expected to rise significantly in the coming years.

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TRL 4

Patent Situation

EP 3542641 (CH, GB) granted
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Service

Technologie-Lizenz-Büro GmbH has been entrusted with exploiting this technology and assisting companies in obtaining licenses.

Problem

Known products or prebiotics have often a low lactulose content, so that there is only an insufficient prebiotic effect and at the same time, they have also a high content of sugars (except lactulose). In older people, moreover, prebiotics in the form of tablets can lead to acceptance problems or the intake may simply be forgotten.

Solution

A lactulose-containing food product or also pharmaceutical product with prebiotic effect, which promotes or regulates intestinal health. It is biotechnologically produced from whey or milk powder and contains an effective concentration of lactulose but with low energy content, low sweetness and low volume.

It is offered as a beverage with a volume of about 150 ml or less, so it should be accepted by older people who often do not want to consume larger amounts of liquid. However, it could thus also contribute to fluid supply.