



Functional Prebiotic Milk

A range of pioneering Functional Milk products based on a proprietary process of incorporation of Lycobiotic™, a patented new class of prebiotic molecules, into dairy lipid droplets.

Beauty and Skin Health Support Milk

Clinical validation of Lycobiotic™ has demonstrated its ability to stimulate the population of probiotic bacteria, in particular Bifidobacteria, in the human colon. A randomised, double blind, controlled 4 week clinical trial on 30 middle-aged persons demonstrated that daily ingestion of Lycobiotic™ resulted in a dose dependent increase of Bifidobacteria adolescentis in participant stool samples.

These changes in the gut were accompanied by an improvement of skin microbiota, sebum and corneocyte parameters associated with ageing.

Milk for Gut Health

This milk contains not only Lycobiotic™, which targets Bifidobacteria, but also dark chocolate polyphenols, which stimulate the growth of another probiotic in the gut, Lactobacilli.

Anti-Ageing Energy SIRT Milk

In the Lycobiotic™ trial above, changes in the gut Bifidobacteria were accompanied by a dose-dependant reversal of age-associated sub-clinical hypoxia in skeletal muscles, stimulating their mitochondria respiration, which resulted in an increase in tissue oxygen saturation.

This anti-ageing effect of Lycobiotic™ is synergistically boosted by incorporation of Lycotec proprietary extract of coffee beans, which, together with energy stimulating caffeine, has a high concentration of SIRT stimulating anti-ageing polyphenols.



Application

- Lycobiotic™ daily dose of 1-10 mg makes it ideal for milk and other beverages
- Lycobiotic™ is taste-free; chocolate and coffee flavour already well accepted
- No specific food-processing machinery required
- Can be used for dried milk powder products
- Low cost
- Lycobiotic™, polyphenols of dark chocolate and coffee bean extract are resistant to pasteurisation or boiling

IP Protection:

A patent application for the new class of prebiotics filed 27 April 2018.

Regulatory

- Lycobiotic™, polyphenols of dark chocolate and coffee bean extract are safe, and do not need regulatory approval
- The incorporation of these ingredients into milk does not create any new chemical entities and does not need to have approval as a Novel Food
- Can be used worldwide as part of other food and beverage products.
- EFSA does not consider such words as "beauty", "skin support", "anti-ageing" or "energy" as health claims, therefore these words can be used on the packaging and for consumer information
- Product information for the Gut Health Milk could state: contains a combination of prebiotics targeting Bifidobacteria and Lactobacilli

Lycotec is now looking for licensing out and new product development partnership for Lycobiotic™ based Functional Milk products and its technologies to Functional Food and Beverage industries.

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