#### Advance the microbiome supplement market with GlyCare™HMOs

Innovating with nature's own gut solution

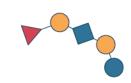
## Human milk oligosaccharides (HMOs)

A unique class of carbohydrates identical to those that naturally exist in breastmilk, with special prebiotic effects

HMOs are diverse with over 200 identified in Human Milk.<sup>2</sup>



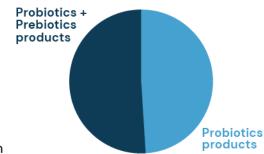
HMOs have complex structures that make them unique.<sup>3,4</sup>





# Synbiotic trend in probiotics market<sup>2</sup>

HMOs could be probiotics' new growth companion



## Novel triple action microbiome ingredient

Unlike ordinary prebiotic fiber, HMOs build a stronger gut from within through 3 mechanisms



Selectively stimulate the growth of beneficial bacteria and foster a thriving community from the start.



May inhibit growth of undesirable organisms and limit their adhesion to cell walls.



May positively impact the gut wall and support gut barrier function

### Promising science

The emerging benefits of HMOs in child and adult health



Microbiome & Intestinal Health



**Immunity** 



Brain & Cognition

#### DSM-Firmenich – the HMO Market Maker



World's most comprehensive portfolio and pipeline

World's most extensive market access

World's largest fully integrated HMO Production site

World class hub of HMO knowledge in science and application

#### Attractive to consumers<sup>3</sup>

HMO Natural Gut Support concept outperforms Speciality Prebiotic benchmark









Validated by 900 consumers

