



Nurturing  
**Growth**  
with every scoop



Gut  
Comfort

Immunity

Growth

Trusted  
Quality

Summary



The addition of prebiotics in infant formula alters the GI microbiota resembling that of breastfed infants<sup>1</sup>



## GOS is one of the most common prebiotics<sup>2</sup>

Prebiotics "GOS" supplemented formula shows a spectrum of benefits:



Better stool consistency<sup>1,3</sup>



Higher concentration of bifidobacteria compared to infants on a non-supplemented standard formula.<sup>1</sup>



Lower risk rates of colic and regurgitation.<sup>3</sup>

G: Gastrointestinal; GOS: Galacto-oligosaccharides.

1. Vandenplas Y, De Groot E, Veerman G. Prebiotics in infant formula. *Acta Microbiol.* 2014;5(6):641-657.

2. Davani-Davani D, Negahdaripour M, Karimzadeh I, et al. Prebiotics: Definition, Types, Sources, Mechanisms, and Clinical Applications. *Food.* 2015;3(2):52.

3. Giovannini M, Venturi E, Gregori D, et al. Prebiotic Effect of an Infant Formula Supplemented with Galacto-Oligosaccharides: Randomized Multicenter Trial. *J Am Coll Nutr.* 2014;33(2):325-33.



Nuralac® advanced formula supports gut comfort by offering...



GOS: Galacto-oligosaccharide  
\* Nuralac® Labeling Information



## Omega-3 PUFAs "DHA" participates in regulating gut immunity and in maintaining gut homeostasis<sup>1</sup>



### Role of omega-3 PUFAs "DHA" in improving intestinal immunity:



Influencing the gut microbiota by:<sup>1</sup>

- Modulating the type and the abundance of gut microbes
- Altering the levels of proinflammatory mediators
- Regulating the levels of short-chain fatty acids or short-chain fatty acid salts



Omega-3 PUFAs exert their beneficial effects on health, brain functions, and behavior by influencing gut microbiota composition and, thus, gut-brain axis functionality.<sup>2</sup>



Reducing the intestinal epithelial cell damage.<sup>1</sup>



Increasing intracellular mitochondrial activity and cell membrane integrity.<sup>1</sup>

PUFAs: Polyunsaturated fatty acids; DHA: Docosahexaenoic acid

1. Fu Y, Wang Y, Gao H, et al. Association among Dietary Omega-3 Polyunsaturated Fatty Acids, the Gut Microbiota, and Intestinal Immunity: Mediators Inflamm. 2021;2021:5879227.

2. Costantini L, Molinari RL, Farnon B, Merendino N. Impact of Omega-3 Fatty Acids on the Gut Microbiota. Int J Mol Sci. 2017;18(12):2645.



Higher  
concentration of  
**DHA**  
(~70% more).<sup>1</sup>

## Immunity

Higher  
concentration of  
**GOS**  
(20% more).<sup>1</sup>



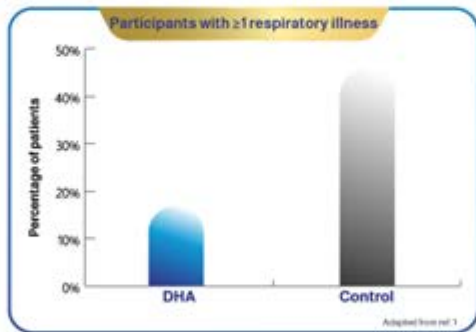
Adding the  
most **abundant**  
**HMO** in breast  
milk (**2'-FL**).<sup>1</sup>

Almost the highest level of GOS+2'-FL  
combined vs. competitors (0.43 g/100 ml)

DHA: Docosahexaenoic acid; GOS: Galacto-oligosaccharides; HMOs: Human milk oligosaccharides; 2'-FL: 2'-Fucosylated

<sup>1</sup> Nuralac® Labeling Information





Toddlers consuming the formula with 130 mg DHA per day have a lower incidence of respiratory illness ( $p=0.024$ ), compared to the formula without DHA.<sup>1</sup>

DHA, Docosahexaenoic acid.

<sup>1</sup> Meunier LM, Karling EH, Neely MP, et al. Toddler formula supplemented with docosahexaenoic acid (DHA) improves DHA status and respiratory health in a randomized, double-blind, controlled trial of US children less than 3 years of age. *Prostaglandins Leukot Essent Fatty Acids*. 2010;82(4-6):287-93.





DHA, Docosahexaenoic acid; GOS, Galacto-oligosaccharides; HMOs, Human milk oligosaccharides; 2'-FL, 2'-Fucosyllactose

<sup>1</sup> Nuralac® Labeling Information



Nuralac® advanced formula is brought to you by quality makers  
"Almarai" with the highest quality standards



## First National Formula

- GMO free.
- Free from heavy metals and insecticides.
- Highest hygienic standards with consistently low microbial count.
- Quality control with 4,500 steps of quality checking.

GMO: Genetically modified organism.



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## Nuralac®: Nurturing growth with every scoop



- Got closer to **breast milk** content.
- Offers **superior gut comfort**.
- Enhances the **immunity** by a blend of components.
- Supports optimum **growth** and **development**.

