



EFSA-confirmed safety and suitability<sup>1</sup>



Stringently controlled



Scientit tested<sup>2</sup> Scientifically



# Hipp HA **COMBIOTIC**<sup>®</sup> with natural lactic acid cultures pired by natu YEARS OF from birth onwards INFANT FORMULA

<sup>7</sup> Calatayud M presented online at New insights in alimentary allergy prevention by improving gut health 18.01.2022. <sup>8</sup>Ben XM et al. Chinese Medical Journal 2004; 117(6): 927-931 <sup>9</sup> Fanaro S et al. J Pediatr Gastroenterol Nutr. 2009; 48: 82-88. <sup>10</sup> Sierra C et al. Eur J Nutr 2015; 54(1): 89-99. <sup>11</sup>Ben XM et al. World J Gastroenterol 2008; 14(42): 6564-6568. <sup>12</sup>Cuello-Garcia C et al. World Allergy Organ J 2016; 9: 10.

#### Important information

#### Breastfeeding is best for babies.

A balanced diet during pregnancy and after birth promotes lactation. Women who do not wish to breastfeed should be informed that it is difficult to reverse that decision. It is important for women to know that the complementary feeding of formula could compromise their breastfeeding success.

#### Infant formula should only be given upon the advice of independent experts.

Advise parents on how to prepare the formula and note the important information and instructions on the packaging. Incorrect preparation of formula can be harmful to babies' health.

13 Fiocchi A et al. World Allergy Organ J 2015; 8(1): 4. <sup>14</sup> Maldonado J et al. J Pediatr Gastroenterol Nutr 2012; 54(1): 55-61. <sup>15</sup> Gil-Campos M et al. Pharmacol Res 2012; 65(2): 231-238. <sup>16</sup> Koletzko B et al AJCN 2020; 111: 10–16.





References

<sup>1</sup> EFSA Journal 2022; 20(3): 7141.

<sup>2</sup> Freidl R. et al. Nutrients 2023: 15(1): 111

<sup>4</sup>Moossavi S et al. Front Pediatr 2018; 6: 197.

<sup>3</sup> Di Constanzo et al. Int J Mol Sci 2020; 21(15): 5275.

<sup>5</sup> Peran L et al. Int J Colorectal Dis 2006; 21(8): 737-746.

<sup>6</sup>Olivares M et al. J Appl Microbiol 2006; 101(1): 72-79.



# To balance the infant immune system

**HIPP HA COMBIOTIC®** with extensively hydrolysed protein

> EFSAconfirmed safety & suitability.<sup>1</sup>

Science and nature hand in hand

Information for healthcare professionals

25

**YEARS OF** 

Extensive hydrolysate

# **EFSA confirms the safety and** suitability of HiPP hydrolysate<sup>1</sup>



**Extensively hydrolysed (whey) protein** was studied in a multicentre, double-blind, randomised, controlled **clinical safety study.** 

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5	

HiPP hydrolysate leads to normal growth and normal development in healthy infants.



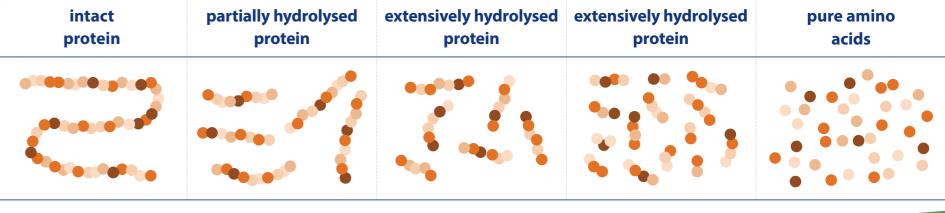
EFSA confirms the safety and suitability of HiPP hydrolysate.

HPP HA **COMBIOTIC**<sup>®</sup> with natural lactic acid cultures inspired by nature YEARS OF

#### **Extensively hydrolysed protein**

An extensively hydrolysed protein should be sufficiently broken down to allow a balance between proinflammatory and tolerogenic immune responses.<sup>2</sup>

#### Possible degrees of of protein hydrolysis in formulae







## **Minimised risk of sensitisation**

First contact: sensitisation

y iden- B cells release ergen IgE antibodies Sensitisation of the mast cell: "arming" with IgE antibodies for a second contact Typical mucous membrane

ldentification as an allergen by IgE antibodies<sup>2</sup>

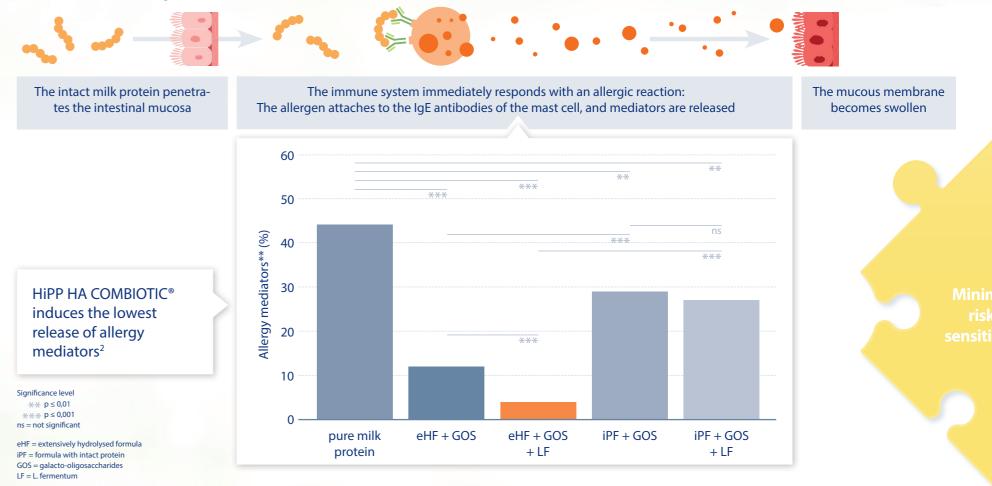
HiPP HA COMBIOTIC<sup>®</sup> Formula with intact protein<sup>\*</sup> Pure milk protein as control

HiPP HA COMBIOTIC<sup>®</sup> has no allergenic potential: IgE antibody-loaded mast cells are not activated in vitro.

A formula containing **extensively hydrolysed protein** has the potential to avoid **sensitisation of mast cells.** 

### Significantly reduced release of allergy mediators

Second contact: allergic reaction



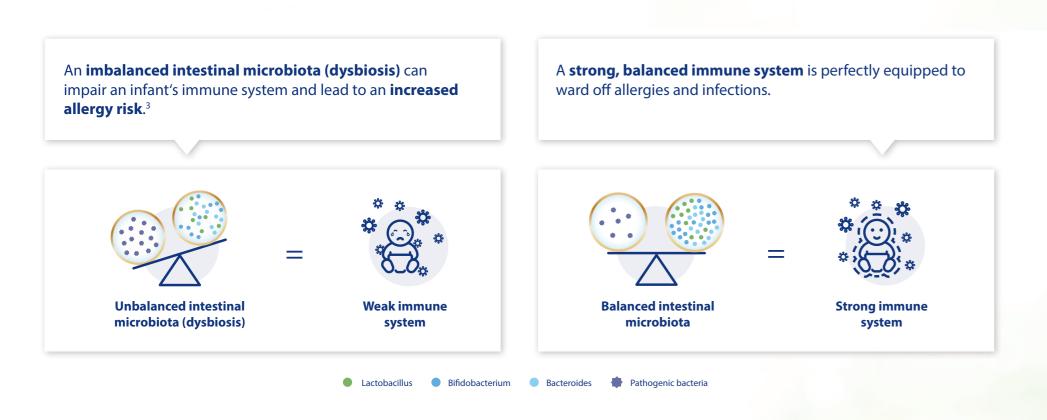
Extensively hydrolysed formula + GOS + L. fermentum induce the lowest release of allergy mediators.



\*\* expression of β-hexosaminidase

### The intestine – the source of our health

A balanced intestinal microbiota is the bedrock for a strong immune system, as over 80% of immunocompetent cells are located in the intestine.



**Human milk** – **the best protection for babies**, because it contains pre- and probiotics. These promote the development of a balanced intestinal microbiota and can protect infants from allergies.<sup>4</sup>

A stronger intestinal barrier

**HiPP HA COMBIOTIC®** 

# The protective shield against allergies

A healthy intestinal microbiota strengthens the intestinal barrier and protects the infant from pathogens and potential allergens.



L. fermentum **lowers the pH value** in the intestine. This makes it more difficult for pathogenic bacteria to colonise it.<sup>5</sup>

L. fermentum attaches to the intestinal wall and crowds out potentially pathogenic bacteria.<sup>6</sup> L. fermentum **promotes the formation of mucus** in the intestinal mucosa, thereby creating a healthy barrier against allergens and pathogens.<sup>6,7</sup>

GOS promote the **growth** of beneficial intestinal bacteria (e.g. lactobacilli and bifidobacteria).<sup>8-11</sup>



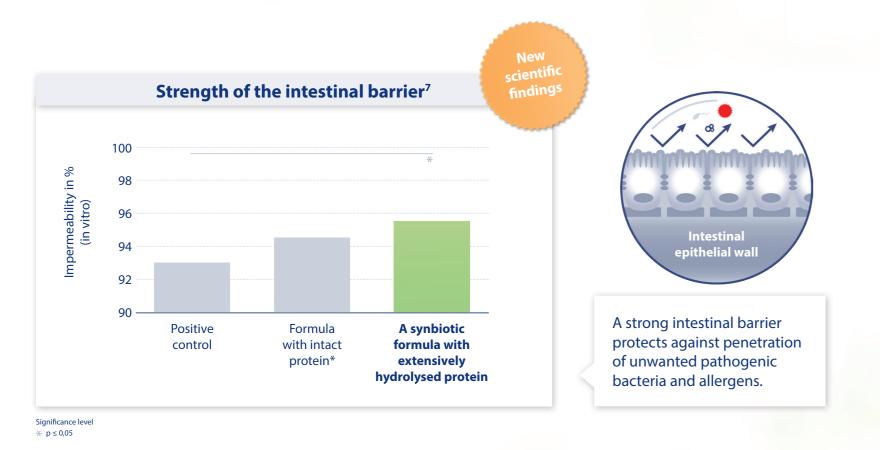
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The WAO guideline also suggests using prebiotics and probiotics to prevent allergies in non-breastfed infants at high risk of developing allergies.<sup>12,13</sup>



#### **Effective protection against allergens**

The synbiotic combination of the natural probiotic L. fermentum and the tried-and-tested prebiotic GOS effectively strengthens the intestinal barrier. The stronger the barrier, the lower the allergy risk.



A synbiotic formula with GOS and L. fermentum ensures the formation of a **strong protective barrier against allergens.** 



HIPP HA COMBIOTIC

\* without probiotics

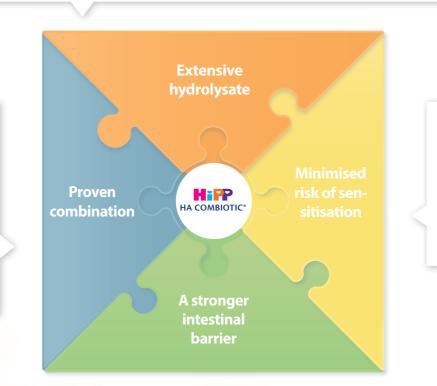
# A balanced immune system HiPP HA COMBIOTIC®



The **immune-friendly protein hydrolysate in** HiPP HA COMBIOTIC<sup>®</sup> is extensively hydrolysed and induces a **much lower release of allergy.**<sup>2</sup>



The tried-and-tested concept of pre- and probiotics, which is inspired by nature, supports the intestinal microbiota and immune system.<sup>14,15</sup>



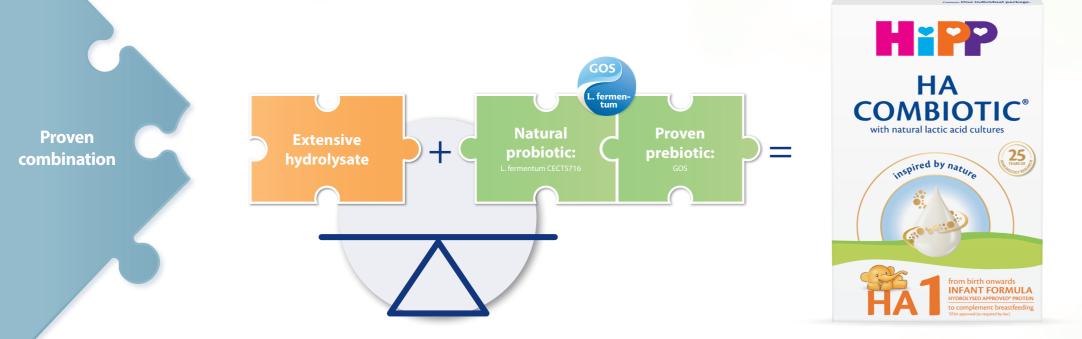
HIPP HA COMBIOTIC®

has the potential to prevent mast cell sensitisation.<sup>2</sup>

The **intestinal barrier** is effectively reinforced **to prevent the penetration of allergens** and unwanted bacteria.<sup>7</sup>



### **Ideal combination** For the infant immune system



Reduced allergenic activity of the extensive hydrolysate and strengthening of the intestinal barrier through pre- and probiotics!



# Science and nature hand in hand Our recipe has evolved!

- Low protein content, adapted to the physiological needs
- DHA and ARA as per current scientific recommendations<sup>16</sup>
- EFSA-confirmed safety and suitability<sup>1</sup>



#### INNOVATIVE

since 2002: Use of probiotic lactic acid cultures originally obtained from human milk\*



#### UNIQUE

composition of pro- and prebiotics that is inspired by nature



#### **ROUNDED OFF**

with a bioactive folate form that is also found in human milk



#### Our goal:

#### to fully understand nature's example – human milk

- more than 10 years of intensive research by HiPP's Research Group on Human Milk
- in partnership with specialists from around the world

For more information, including reports from the research group, visit: hipp.com/hcp Section: Studies

