### HiPP COMBIOTIC® Growing-up Milk meets the current recommendations: 13,14

- Calcium, potassium, magnesium, vitamin B<sub>2</sub> and B<sub>12</sub> content replicate that of whole milk and energy content replicates that of semi-skimmed cow's milk
- No flavourings or sweeteners used
- Protein content lower than in cow's milk

Composition of HiPP COMBIOTIC® Growing-up Milk for children aged 1 and over and aged 2 and over compared to recommendations from the Early Nutrition Academy (ENA)





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Nutrients/ criteria	ENA recommendations <sup>14</sup>	HiPP COMBIOTIC® Growing-up Milk from 1 year	HiPP COMBIOTIC® Growing-up Milk from 2 years									
Flavouring	no flavouring	no flavouring 🗸	no flavouring 🗸									
Preparation	prepared in a cup	prepared in a cup	prepared in a cup									
Composition per 100 kcal												
Energy (kcal/100 ml)	45 - 70	51	51									
Fat (g)	4.4 - 6.0	5.5	5.5									
- DHA (% of fat)	ideal value min. 0.3	0.3	0.3									
Carbohydrates (g)	9 - 14	9.8	10.0									
Protein (g)	1.6 - 2.7	2.0	1.9									
Vitamin D (μg)	1.5 - 4.5	4.5	5.7*									
Calcium (mg)	min. 200	235.3	235.3									
Iron (mg)	1 – 3	2.4	2.4									
lodine (μg)	12 - 36	27.5	27.5									

<sup>\*</sup>Higher vitamin D content based on clinical study<sup>6</sup>

HiPP COMBIOTIC® Growing-up Milk 1+ and 2+ meet the recommendations of the **Early Nutrition Academy (ENA)** 





#### **✓** Composition meets current recommendations

- Reduced protein and fat content to suit the needs of children
- Specially adapted amounts of critical nutrients
- + Iron
- + lodine
- + Vitamin D
- Protein
- Saturated fatty acids
- \* HiPP COMBIOTIC® Growing-up Milk 2+ with 2.9 μg/100 ml vitamin D
- \*\* Breast milk contains a large number of natural cultures that can vary from mother to mother
- from lactose

#### **✓** Benefits demonstrated in study\*

- Improved nutrient supply from drinking growing-up milk
- Significantly improved vitamin D levels in winter and safe to consume in summer

### **✓** Contains proven ingredients

- Lactic acid culture L. fermentum (originally obtained from breast milk)\*\*
- Valuable GOS fibres\*\*\*





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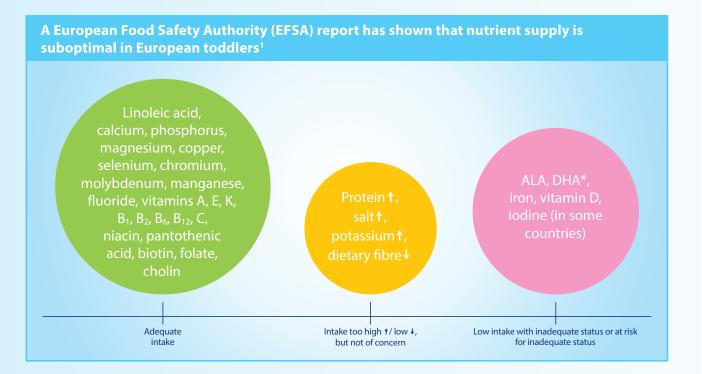


# HiPP COMBIOTIC® **Growing-up Milk**

For healthy growth all the way up to nursery-school age

Information for healthcare professionals

## Nutrient supply in toddlers is often suboptimal



#### In the EFSA report, the toddlers' diets included:

- **Protein intake** approximately 12 to 19 energy per cent (E%) above average requirements
- Intake of important fatty acids below adequate intake (AI)
- ▶ Average **ALA** intake below or exactly at recommended 0.5 E%
- Average **DHA** intake of 43 mg/d, significantly less than AI of 100 mg/d
- In almost all surveys, **iron intake** was below AI of 8 mg
- Infants and toddlers are at risk of iodine deficiency
- Prevalence of **vitamin D deficiency** between 10 and 30%

#### **Experts call for:**

- Improved quality of toddler nutrition through appropriate interventions<sup>2</sup>
- ▶ Difficult to implement in practice as it requires changes to eating habits³

A simple solution is required that makes it easy for parents to provide their children with a balanced diet.

## Growing-up milk improves the supply of critical nutrients

#### Growing-up milk is developed to meet the specific needs of toddlers:

- Higher amounts of nutrients which are often not consumed in sufficient quantities
- Other nutrients replicate those found in cow's milk
- Reduced protein content to suit children's needs

Various studies on humans have investigated the extent to which growing-up milk contributes to nutrition.

Overview of studies on improved nutrient intake/supply from drinking growing-up milk											
	Vitamin D	Iron	Vitamin C	Zinc	Protein	Alpha- linolenicacid	Essential fatty acids	Vitamin A	Vitamin E	B vitamin	
Akkermans et al. 2017 <sup>4</sup>	×	×									
Chouraquai et al. 2019 <sup>5</sup>	×		×				×	×	×	×	
Hower et al. 2013 <sup>6</sup>	×										
Ghisolfi et al. 2013 <sup>7</sup>	×	×	×			×					
Lovell et al. 2019 <sup>8</sup>	×	×	×	×	×						
Walton and Flynn 2013 <sup>9</sup>	×	×									

### Multiple clinical studies have shown that nutrient intake/supply is improved by drinking growing-up milk.

This applies in particular to the supply of

- vitamin A, C, D und E,
- omega-3 fatty acids,
- iron and zinc.

### **European Society for Paediatric Gastroenterology, Hepatology, and Nutrition** (ESPGHAN) thus recommends:

Growing-up milk can be used as part of a strategy to increase the intake of iron, vitamin D, and polyunsaturated fatty acids and decrease the intake of protein compared with unfortified cow's milk.<sup>10</sup>

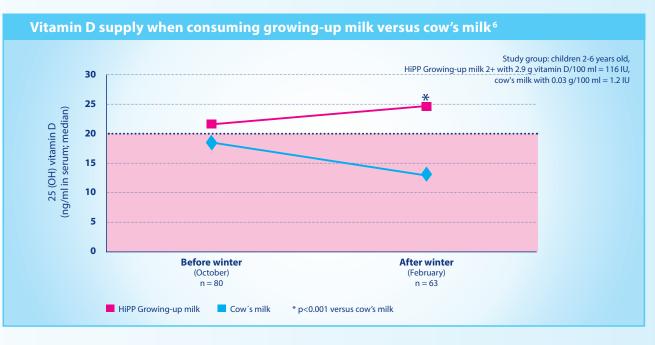
## Particularly critical: Vitamin D

#### Adequate supply of vitamin D for toddlers is important for:

- Bones and teeth
- The immune system
- Possible protective effects for type I/II diabetes, cardiovascular and autoimmune diseases and tumours<sup>11</sup>

#### Why is vitamin D in particular so critical?

- End of supplementation after their second early summer, subsequent supply is inadequate<sup>12</sup>
- Insufficient vitamin D content in food
- Limited self-synthesis due to strong sun protection
- Endogenous synthesis is insufficient to compensate for low intake via diet



- Significantly higher 25(OH)D serum concentrations in the growing-up milk group (with average intake of 7.1 μg or 284 IU/day)
- The intervention study also showed that growing-up milk is safe to use in summer (median 25(OH)D serum concentrations: 27.6 ng/ml)

Growing-up milk with 2.9 µg vitamin D per 100 ml is a safe and simple way to prevent the decrease in 25(OH)D serum concentration during the winter.