



For the most valuable in life.



## PRODUCT INFORMATION

# HiPP formula from organic goat's milk

Information for healthcare professionals

# HiPP formula from organic goat's milk

Goat's milk is becoming **increasingly popular** and has been used as food around the world for thousands of years. Already back in 2012, the European Food Safety Authority (EFSA) concluded that goat's milk is also **safe for use** in infant and follow-on formulas.



## HiPP organic goat's milk formula contains prebiotic GOS to support the developing digestive system

- less colic<sup>2</sup>
- increased stool frequency and softer stool consistency similar to that of breastfed infants<sup>3–7</sup>
- promotes the growth of bifidobacteria and lactobacilli<sup>3–6</sup>



## A fatty acid spectrum inspired by nature

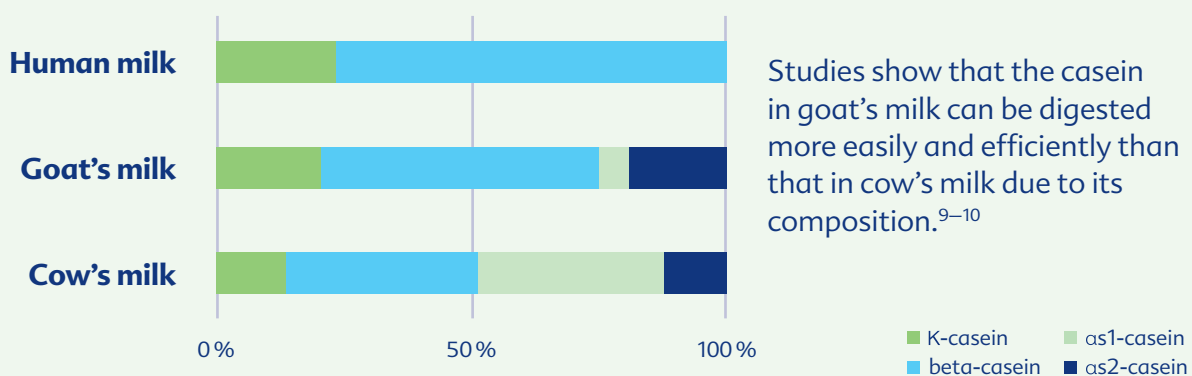
- thanks to palmitic acid, which is the predominant fatty acid in human milk
- optimum ratio of omega-3 and omega-6 LCs — i.e. docosahexaenoic acid (DHA) and arachidonic acid (AA)<sup>8</sup>
- important for brain and nerve tissue development, as well as visual development



## Goat's milk naturally contains a special protein composition\*

- similar to the protein composition of human milk, it is easier to digest than that of cow's milk<sup>9–10</sup>
- another special feature of goat's milk is that it is naturally high in A2 beta-casein<sup>11</sup>

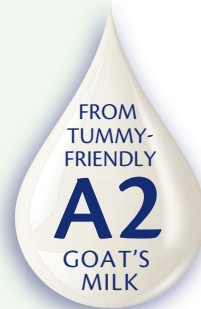
### For comparison: Casein composition<sup>12</sup>







\*HiPP formulas from organic goat's milk contain protein similar to cow's milk protein and should therefore not be used in cases of known or suspected cow's milk protein allergies.

## What is A2 milk?

- Milk contains various proteins, including beta-casein which can occur in structurally different forms (e.g. A1 and A2 beta-casein).
- Like human milk, A2 milk contains a beta-casein with proline at position 67 of the amino acid chain, while A1 milk has histidine at this position.
- Due to this difference, no protein component associated with gastrointestinal complaints is released, seemingly improving the tolerability of A2 milk as compared to A1 milk.<sup>13</sup>
- Goat's milk is naturally high in A2 beta-casein, while European cow's milk usually contains a mix of A1 and A2 beta-casein.<sup>11</sup>



Position	59	60	61	62	63	64	65	66	67
	Val	Tyr	Pro	Phe	Val	Gly	Pro	Ile	Pro
	Val	Tyr	Pro	Phe	Thr	Gly	Pro	Ile	Pro
 A2	Val	Tyr	Pro	Phe	Pro	Gly	Pro	Ile	Pro
 A1	Val	Tyr	Pro	Phe	Pro	Gly	Pro	Ile	His



### The best HiPP organic ingredients

- organic goat's milk from Germany and its neighbouring countries
- strictly controlled — no genetic engineering
- no use of chemically synthesised pesticides
- organic palm oil from sustainable sources

### Sustainable quality

- all formulas are produced in Germany
- 97% of our folding box can be recycled

Our **HiPP formula from organic goat's milk** is available for two feeding stages — infant formula from birth and follow-on formula from 6 months.



# Made with all our care and experience: for healthy growth



## Ingredients:

**Skimmed goat's milk\***, **lactose\***, vegetable oils\* (palm oil<sup>♥</sup>, rapeseed oil\*, sunflower oil\*), **skimmed goat's milk powder\***, galacto-oligosaccharides\* from **lactose\***, **fish oil**, calcium carbonate, choline, Mortierella alpina oil, sodium citrate, L-tyrosine, vitamin C, L-tryptophan, ferrous sulphate, L-cystine, zinc sulphate, inositol, pantothenic acid, niacin, vitamin E, L-carnitine, cupric sulphate, vitamin A, vitamin B1, vitamin B6, folic acid, manganese sulphate, vitamin K, sodium selenite, potassium iodide, vitamin D, biotin, vitamin B12.

\*from organic production

<sup>♥</sup>organic palm oil from sustainable cultivation

## References:

**1** EFSA Journal 2012; 10(3):2603. **2** Giovannini M et al. J Am Coll Nutr 2014;33(5):385–393. **3** Sierra Cet al. Eur J Nutr 2015;54(1):89–99. **4** Fanaro S et al. J Pediatr Gastroenterol Nutr. 2009; 48: 82–88. **5** Ben XM et al. Chinese Medical Journal 2004; 117(6): 927–931. **6** Ben XM et al. World J Gastroenterol 2008; 14(42): 6564–6568. **7** Ashley C et al. Nutrition Journal 2012; 11: 38. **8** Koletzko B et al. Am J Clin Nutr 2020; 111: 10–16. **9** Hodgkinson A et al. Food Chem 2018; 245:275–281. **10** Maathuis A et al. J Pediatr Gastroenterol Nutr 2017; 65(6):661–666. **11** Oliveira L et al. Anim Biotechnol 2021;93-95. **12** Prosser C et al. 2003 Poster paper presented at the 11<sup>th</sup> Asian Congress of Pediatrics, Bangkok. **13** Küllenberg de Gaudry et al. Nutrients 2019; 77(5):278–306

## Important information:

Breastfeeding is best for babies. Infant formula should only be given upon the advice of paediatricians, midwives or other independent experts.

## Composition

### Typical value per 100 ml ready-to-drink formula\*

<b>Energy</b>	276 kJ/66 kcal
<b>Fat</b>	3.6 g
of which	
- saturates	1.5 g
- monounsaturates	1.6 g
- polyunsaturates	0.5 g
of which	
linoleic acid (omega-6)	0.40 g
alpha-linolenic acid (omega-3)	0.06 g
arachidonic acid	13.2 mg
docosahexaenoic acid	13.2 mg
<b>Carbohydrates</b>	7.0 g
of which sugars	7.0 g
of which lactose <sup>1</sup>	6.9 g
inositol	4.2 mg
Fibres	0.3 g
of which galacto-oligosaccharides	0.3 g
<b>Protein</b>	1.3 g
of which L-carnitine	1.3 mg
Sodium	20 mg
Potassium	70 mg
Chloride	58 mg
Calcium	67 mg
Phosphorus	38 mg
Magnesium	5.2 mg
Iron	0.50 mg
Zinc	0.50 mg
Copper	0.053 mg
Manganese	0.0050 mg
Fluoride	< 0.010 mg
Selenium	3.0 µg
Iodine	13 µg
Vitamin A	54 µg
Vitamin D	1.5 µg
Vitamin E	0.66 mg
Vitamin K	5.1 µg
Vitamin C	8.9 mg
Vitamin B <sub>1</sub> (thiamine)	0.050 mg
Vitamin B <sub>2</sub> (riboflavin)	0.14 mg
Niacin	0.34 mg
Vitamin B <sub>6</sub>	0.029 mg
Folic acid	10.0 µg
Vitamin B <sub>12</sub>	0.10 µg
Biotin	1.5 µg
Pantothenic acid	0.34 mg
<b>Choline</b>	25 mg

<sup>1</sup> lactose occurs naturally in milk

The above analytical values are subject to variations that are common in products made using natural ingredients.

Packaged in a protective atmosphere.

\*Standard solution: 12.90 g HiPP Pre Infant Milk from organic goat's milk + 90 ml water = 100 ml ready-to-drink product. 1 level measuring spoon = approx. 4.3 g HiPP Pre Infant Milk from organic goat's milk