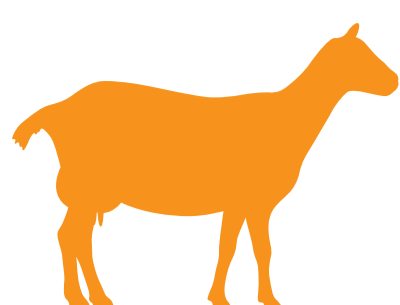


Goat milk protein as a source for infant formula



Goat milk is highly nutritious and a good source of several macro- and micronutrients. Goat milk protein contains all essential amino acids and has been proven to be a suitable source for infant formula.



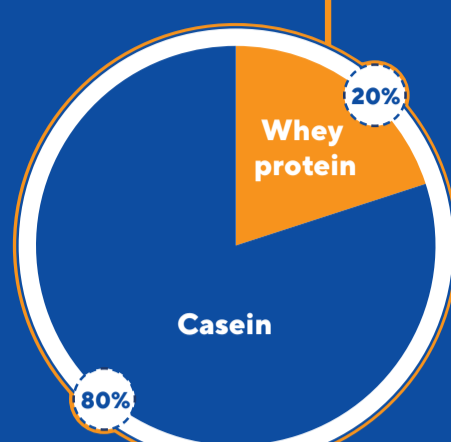
Would you like to learn more about milk proteins and their function?
[click here](#)

Milk proteins: casein and whey

With a specific composition for goat and cow's milk.^{1,2,3,4,5}

Total milk protein
in goat, sheep and cow's milk

=

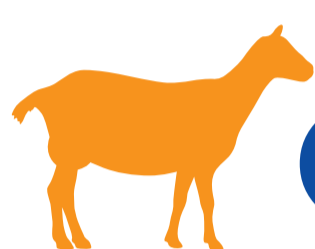


Almaas et al. concluded: "Caprine milk proteins were digested faster than bovine milk proteins."¹

Milk casein composition (%)

	κ-casein	β-casein	αs1-casein	αs2-casein
Human milk	23	77		
Goat milk	20	55	6	19
Cow's milk	13	39	38	10

Goat milk has a lower amount of αs1-casein compared to cow's milk which is related to a softer, more easily digestible down curd when consuming goat milk.^{2,6}



Goat milk infant formula

Infant formula (IF) could be the sole source of nutrition for the first six months of life. Goat milk infant formula is safe, well-tolerated and highly nutritious.

A higher proportion of whey proteins may be important for:^{3,8}



A balanced amino acid composition



The promotion of immunomodulation by lactoferrin, α-lactalbumin, and immunoglobulins



Protection against infections



A gentle digestion

Critical functions in infants with an immature immune and digestive system

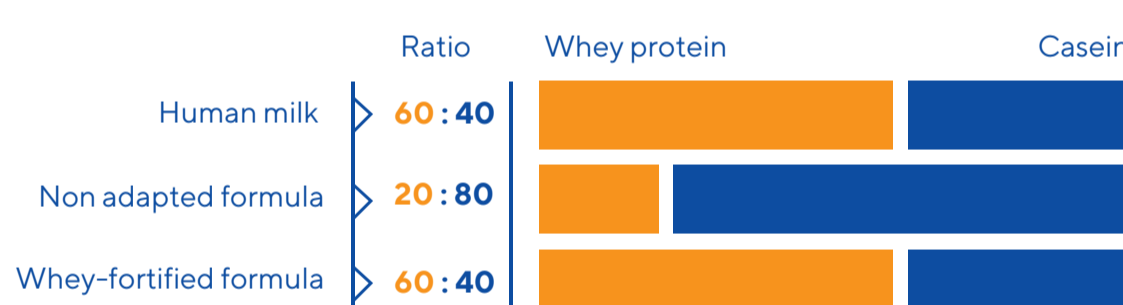
SAFE

Goat milk protein is a suitable protein source for infant and follow-on formula in Europe (EFSA, 2012).⁷

FDA GRAS status: Generally Recognized As Safe goat whey protein concentrate and non fat dry goat milk.*

*produced by Ausnutria, GRN No. 644

Like many cow's milk IFs, goat milk IFs can also be supplemented with whey.

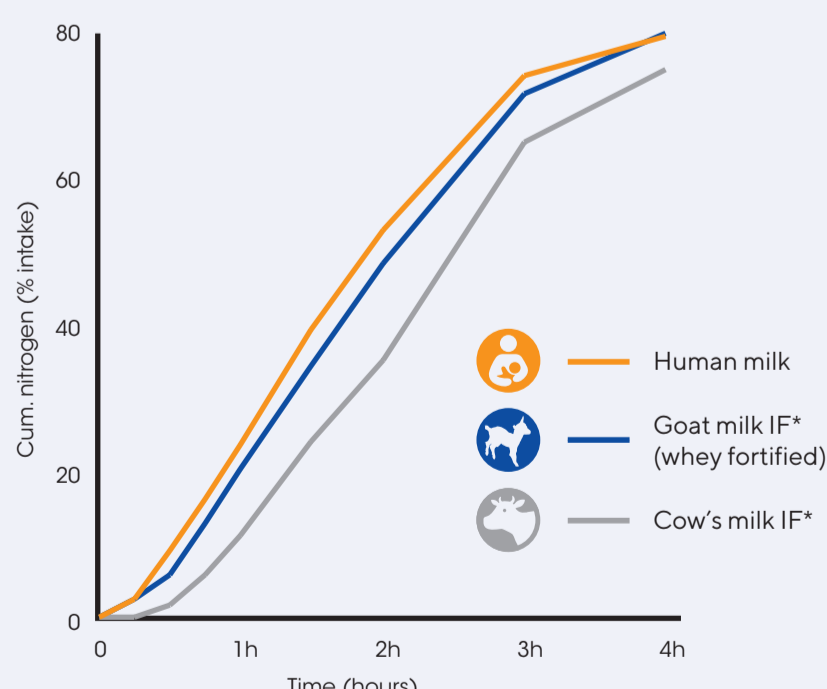


Coagulation of goat and cow's milk formula in the stomach

A softer and looser curd is formed in the stomach of an infant when consuming goat milk infant formula.^{9,10}



Maathuis et al. concluded that: "the kinetics of protein digestion of the goat infant formula is more comparable to that of human milk than that of the cow infant formula."¹¹



* both formulas are whey fortified

Protein digestion after 2 hours

Human milk and goat milk IF

Cow's milk IF

About 50%

About 35%

The protein digestibility of goat milk infant formula is similar to human milk.

References: 1: Almaas, Cases et al. 2006; 2: Ceballos, Morales et al. 2009; 3: Park and Haenlein 2006; 4: Pintado and Malcata 2000; 5: Inglingstad, Devold et al. 2010; 6: Ames 2009, 7: EFSA 2012; 8: Lönnerdal et al. 2017; 9: Ye et al. 2019; 10: own data, Ausnutria B.V.; 11: Maathuis et al. 2017.

Disclaimers:

- Ausnutria acknowledges that breastfeeding is the best food for infants aged 0-6 months and supports prolonging breastfeeding to 24 months (age 2).
- For health care professionals only.
- Raw or regular milk is not a suitable source for infant nutrition and will negatively affect the kidneys because it contains very high levels of protein and sodium.
- Contrary to the assumption of some consumers that goat milk may be a solution to cow's milk allergy, the EFSA concluded that there is insufficient data to support the belief that the incidence of allergic reactions is lower when feeding goat's milk infant formula compared to with cow's milk infant formula.⁷