Goat Milk Fact Sheet **Goat milk** Oligosaccharides (gMOS)

Goat milk naturally contains high levels of oligosaccharides.

The amount and diversity of oligosaccharides in goat milk is higher than in cow's milk. Goat milk contains several oligosaccharides that are identical to the oligosaccharides found in human milk.



Did you know?

The oligosaccharide profile found in goat milk is more similar to the profile of human milk than cow's milk.¹



Reported amount of gMOS:² Colostrum: 200 - 650 mg/L

> Mature goat milk: 60-350 mg/L

The levels of oligosaccharides in goat

milk are significantly lower than the

Amounts of gMOS can vary due to :³

levels in human milk, but much

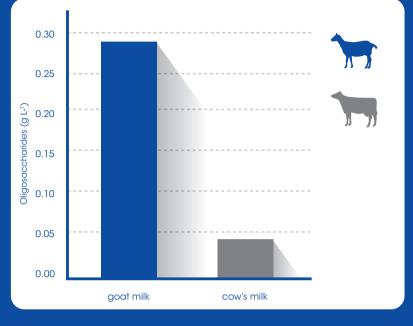
lactation stages of the goats

quantification methods

higher than in cow's milk.

goat breeds

Oligosaccharides are naturally present in goat milk, these amounts are 4-10 times higher than in cow's milk. ^{1,4,5}



(Figure adapted from Martinez-Ferez et al. 2006)

Goat milk oligosaccharides have a higher diversity than cow's milk^{1,6}



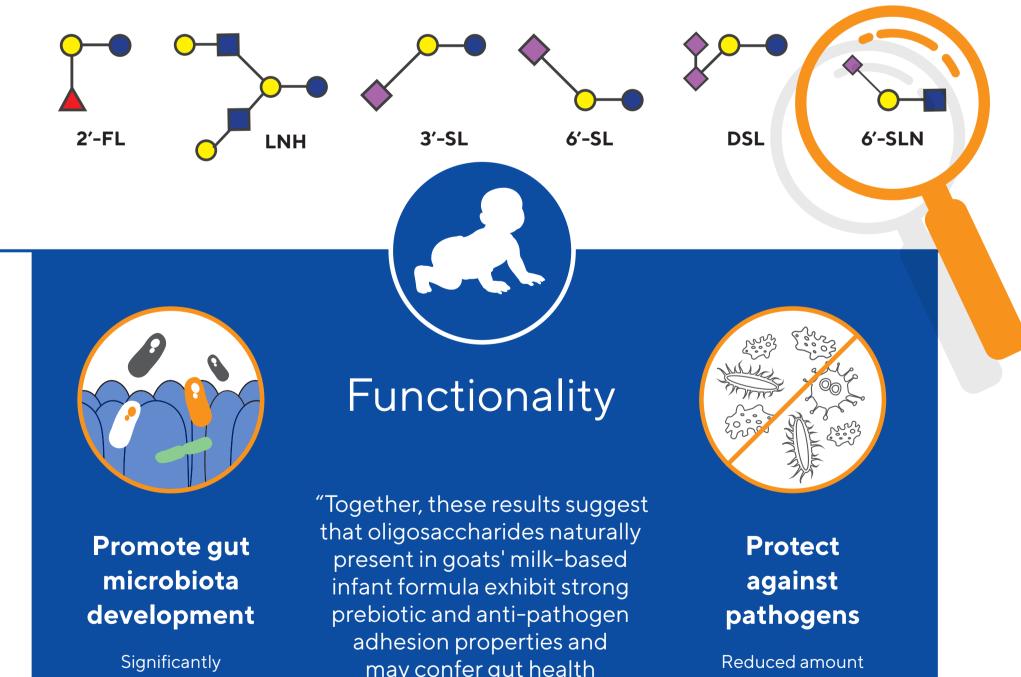
Diversity

- Over 78 gMOS structures were found.²
- 40 gMOS were characterised and identified.²
- Several of the oligosaccharides identified in goat milk.
- are identical to oligosaccharides found in human milk.^{1, 2, 7, 8}

Human milk and goat milk both contain a more complex mixture of oligosaccharides than cow's milk.²

	Human Milk	Goat Milk	Cow's Milk
Structures found	247	78	50
	C 2		

Examples of oligosaccharides that have been identified in both human and goat milk.⁷



enhanced growth of Bifidobacteria and Lactobacilli. 7,9

may confer gut health benefits to infants."

Leong 2019

of pathogens Reduced adhesion of pathogens E. Coli and Salmonella to gut wall. 7,9

References: 1: Martinez-Ferez et al. 2006. 2: Submitted review paper on goat milk oligosaccharides published by UMCG Groningen and Ausnutria B.V. 3: Sousa et al. 2019. 4: Ruhaak & Lebrilla 2012. 5: Thurl et al. 2017. 6: Albrecht et al. 2019. 7: Leong et al. 2019. 8: Kiskini & Difilippo 2013. 9: Oliveira et al. 2012.

Disclaimers:

- Ausnutria acknowledges that breastfeeding is the best food for infants aged 0-6 months and supports prolonging breastfeeding up to 24 months (age 2).
- For health care professionals only.

