

Goat milk in infancy foods

Who I am?



EUGENIO PELOSI

Consultant in food engineering since 1984, specialist in planning and making processing plants and new dairy factories to produce a wide range of products.

My job begins from the specifications fixed by R&D dept. to realize on industrial scale advanced factories to get the clients targets about quantity, quality, industrial costs and profitability.

What about today's subject?



Composition of goat milk



	ASINA	VACCA	PECORA	CAPRA	DONNA
Acqua (%)	90,39	87,5	81,3	86,9	87,57
Grasso (%)	1,21	3,6-4,5	4,5 - 7,5	3,7-4,3	3,38
Proteine (%)	1,63	2,8-3,3	4,6-6	3,1-4,5	1,64
Caseina (%)	0,80	2,6-3	4,5	2,7	0,46
Albumine (%)	0,83	0,7 – 0,8	1,5	1,2	1,18
Lattosio (%)	6,23	4,9	3,0	4,3	6,69
pH	7,22	6,65	6,65	6,70	7,0-7,6
Val.energ. (kcal/kg)	463,3	712,6	1263,6	812,1	682,2

Composition of goat milk





Composizione Chimica (%) del Latte di Alcune Razze Caprine

Razza	Sostanza Secca	Grasso	Proteine	Caseine	Lattosio
Maltese	14,56	3,92	3,23	2,67	4,74
Derivata di Siria	14,21	5,35	3,28	2,58	4,63
Sarda	14,44	5,21	3,75	2,81	4,69
Saanen	11,31	3,05	2,71	2,28	4,49
Alpine	10,06	2,92	2,78	2,14	4,44

Composition of goat milk

razze	Latte (l)	Grasso (%)	Proteina(%)
Saanen	603±240	3,10	3,02
Camosciata delle Alpi	528±225	3,22	3,10
Frisa	389±173	2,97	3,02
Girgentana	374±149	3,83	3,39
Maltese	324±146	3,80	-
Bionda dell'Adamello	314±109	2,84	2,77
Sarda	223±104	4,60	-

Goat milk can be transformed in a wide range of products, practically the 90% of the products obtained from cow milk.



LIQUIDS

- Pasteurized milk whole
- \circ $\,$ Pasteurized milk low fat
- Pasteurized milk skimmed
- Pasteurized milk formula & fortified
- o UHT milk whole
- UHT milk low fat
- UHT milk formula & fortified

POWDER

- Powder milk whole
- \circ Powder milk low fat
- Powder milk skimmed
- Powder milk formula











FLUID

- \circ yogurt natural
- yogurt fruit
- dessert (fruit, cocoa, vanilla)
- o dessert UHT
- o kefir natural
- o kefir fruit
- o ricotta cheese
- o butter



CHEESE

- Cheese soft
- Cheese spreadable
- Cheese semi-hard
- Cheese hard



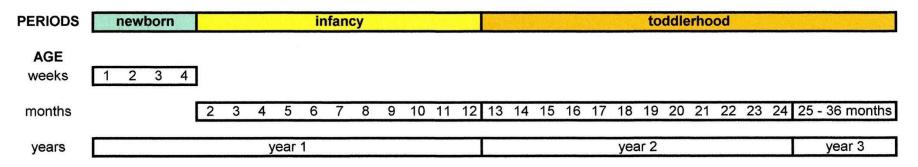
Products for infancy

Human Breast Milk		
Calories	172	
Fat	II grams	
Protein	3 grams	
Carbohydrates	17 grams	

Goat Milk Formula		
Calories	173	
Fat	II grams	
Protein	3.5 grams	
Carbohydrates	17 grams	

Products for infancy

CHILD DEVELOPMENT PERIODS



BABY NUTRITION CHART

birth to 6 months	6 to 12 months	12 to 36 months
breast milk or formula 1 only	breast milk or formula 2	breast milk or formula 3 or home made "moms formula"
	vegetables & fruit	vegetables & fruits & proteins foods & dairy & grains/bread
	puréed and mixed	puréed, mashed or cut into small pieces

infant milk	follow on	toddler milk - growth milk
lait pour nourisson	lait de suite	lait de croissance

Products for infancy



POWDER FORMULA MILK

- \circ Type 1 0 6 months
- Type 2 6 10/12 months
- Type 3 10/12 24/36 months







Requirements for infancy foods



o **SAFE**

- HEALTHY
- o EASY TO USE
- o **TASTY**

Processing plants - Yogurt



Processing plants - Yogurt



Processing plants - Yogurt





Processing plants – fresh soft cheese





Processing plants – fresh soft cheese



Processing plants – soft & spreadable cow & goat cheese



Processing plants – soft & spreadable cow & goat cheese



Processing plants – soft & spreadable cow & goat cheese







Thank you for your attention!