

Milk composition comparison											
Species	Llama	Cow	Goat	Sheep	Whole Milk	2% Milk	Yogurt	½ Whole & ½ 2%	3t yogurt /8oz milk	TdC Milk Replacer	
Fat, %	2.7	3.7	4.5	7.4	3.3	2.0	1.5	2.65	0.0408	2.6908	
Sugar, %	6.5	4.8	4.1	4.8	4.9	4.9	11.7	4.9	0.3263	5.2263	
Protein, %	3.4	3.4	2.9	5.5	3.3	3.3	3.5	3.3	0.0979	3.3979	
Ca, ppm	1701	1080	1400		1189	1189	1991	1189	0.0055	1189.006	
P, ppm	1215	<llama							0.0085		
K, ppm	1201	1680	>cow								
Cl, ppm	732	980	>cow								
S, ppm	425	>llama									
Na, ppm	272	340				0.0533	75 %DV	0.0533	0.0085	0.0618 ?	
Mg, ppm	150	115									
Zn, ppm	4.19 ± 0.95										
Ba, median ppm	0.278	0.188									
Cu, median ppm	0.109	0.052									
Fe, mean ppm	0.65	0.194					10 %DV				
ME, kcal/100 g	70.02 ± 9.40	85.16	103.57	155.56							
TS	13.1	12.7	13.2	19.3							
Lactose	6.5										
* Significant farm effect.											
** "...relative proportions of protein subclasses differ; caseins predominate in both species, but llama milk has no detectable β-lactoglobulin and has a higher proportion of lactoferrin."											
"...carbohydrates (complex or simple?) provide relatively more, and fat relatively less, of the energy needs for the nursing cria compared with that of domestic ruminants."											
Trace mineral concentrations in llama milk compare favorably w/ those for cow milk.											
All cites and data from Morin, et al., 1995.											
Replacer	Whole Milk	Whole Milk	2% Milk	2% Milk	Yogurt	Yogurt	Yogurt	Yogurt			
Serving Size	8 oz, 244 g		8 oz, 244 g		6 oz, 170.25 g			1 t	1 t		
	g	%	g	%	g	%	g	%	%		
Fat, %	8	3.3	5	2.0	2.5	1.5	0.0694	0.0408			
Sugar, %	12	4.9	12	4.9	20	11.7	0.5556	0.3263			
Protein, %	8	3.3	8	3.3	6	3.5	0.1667	0.0979			
Ca, ppm	0.290	0.1189	0.290	0.1189	0.339	0.1991	0.0094	0.0055			
Na, ppm	0.13	0.0533	0.13	0.0533	0.75	0.4	0.0208	0.0085			
Ca, %DV					25						
Na, %DV					3						
Fe, %DV					10						
<b>USDA National Nutrient Database for Standard Reference, Release 18</b>											
<b>Yogurt</b>											
Ca content: 452 mg / 8 oz; 8 oz is 227 g			Wallaby Yogurt, Vanilla Creamy Style Lowfat Organic								
6 oz (452 mg/ 8 oz) = 339 mg Ca = 0.339 g Ca			Ingredients: cultured pasteurized reduced fat milk, org. evap. cane juice, org. extract of vanilla, org. locust bean gum, pectin.								
If 36 t = 6 oz then 1 t = 9.4 mg Ca											
1T = 3 t then 1T = 28.2 g Ca			L. acidophiles, L. bulgaricus, S. thermophilus, bifidus								
<b>Milk</b>											
Ca content: 290 mg / 8 oz; 8 oz is 244 g											
290 mg Ca = 0.290 g Ca											
If 16 T = 8 oz and 12 T = 6 oz then 1 T = 28.3 g Ca											
This information was compiled by Brenda Gallagher Tierra del Cielo Alpaca Ranch, Watkins, CO - 2012											