



STUDY REGARDING THE MAIN SKILLS OF SPECIALIZED ANIMALS FOR MILK PRODUCTION

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Abstract: Of the breed of origin of the cows some milk quality indices depend (the fat content of milk, which may vary between 2,8 and 3,5% low-fat milk, between 3,5 and 4,0%, in milk with an average fat content of between 4,0 and 5, 0% high-fat milk, and between 5.0 and even 6.5% very high fat content. In the case of milk obtained from buffalo species, it is found to be the richest in fat, and due to the large amount of calcium and protein, it is recommended for the manufacture of dairy products, especially cheese. Domestic sheep breeds produce relatively low amounts of milk, between 70-150 liters per lactation, but there are also specialized breeds that can produce even over 400 liters of milk per lactation, the percentage of fat of this type of milk can vary between 6 and 8%. Donkey's milk has the lowest fat percentage, but is the most expensive on the milk market, due to the very low production per animal and especially due to the many beneficial properties of the body, being considered a natural antibiotic that cures many diseases

• Results and discussions

- In the following Table (Table 1) are highlighted the main information of interest, regarding the fat, protein, lactose, casein and ash content of milk from animal species specialized for this purpose and exploited in our country: cow, buffalo, sheep, goat, donkey
- Regarding the percentage of fat, it is found that the buffalo species produces the milk with the highest percentage of fat, namely 7.50% while at the other extreme is the milk donkey with only 1.40%, but this type milk has the highest percentage of lactose, namely 6.20%.

The chemical composition of the milk according to the species of origin

Species of origin of the milk:	%				
	fat	protein	lactose	casein	ash
Cow	3,8	3,6	4,8	2,9	0,7
Buffalo	7,5	4,3	5,2	0	0,7
Goat	4,1	3,7	4,2	2,9	0,8
Sheep	6,2	5,4	4,8	4,3	0,9
Donkey	1,4	1,8	6,2	0	0,5

CONCLUSIONS

Milk from the five animal species, which is found in the agri-food markets, is extremely different, both in terms of its fat percentage and in terms of protein, lactose and casein content. In terms of the quantity used in the first place is cow's milk, which can have a percentage of fat between 2.8 and even 6.5%, depending on the breeds of animals exploited.

The milk obtained from the buffalo species is the richest in fat, meaning 7.50%, but it also contains sufficiently large amounts of calcium and protein, being recommended for processing various dairy products.

The best rated, from the point of view of the capitalization price is donkey's milk, which although has the lowest percentage of fat, but the production is very low per animal and especially due to its properties particularly beneficial to the human body, being considered a Natural antibiotic that cures many diseases, causes this price quite high.