

# Characterization of carcass and meat traits in "Serpentina" goat kids

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## INTRODUCTION



### Traditional Products

"Cabrito de Leite" 4-6.5 kg

"Chibo" 6.5-13 kg

"Cabra" (adult)

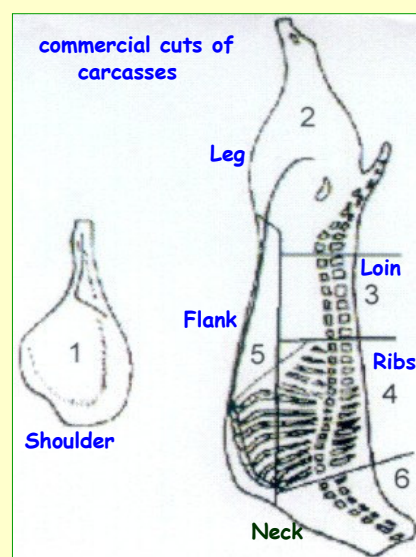


## OBJECTIVES

To study the carcass and meat of kids from the Serpentina goat breed, in order to obtain the certification as PGI by the EU

## MATERIAL & METHODS

- 12 kids of the Serpentina breed, slaughtered at 6.5 kg live weight and 70 days of age;
- At 48h *post mortem*, the carcasses were separated in 6 commercial joints that were totally dissected into muscle, fat and bone;
- *Longissimus dorsi* (LD) and *Semimembranosus* (SM) muscles were evaluated for color, water holding capacity and shear force (Warner Bratzler)



The certification of traditional products from autochthonous breeds can contribute to their maintenance.

## RESULTS

Mean (%)  $\pm$  SE for carcass composition of Serpentina kids

	Muscle	SF	IF	B	M/B	IF/SF
Means	64.5	3.5	5.6	25.7	2.5	1.7
SE	2.1	1.2	1.3	2.1	0.2	0.5

SF = subcutaneous fat, IF = intermuscular fat, B = bone, M/B = muscle/bone ratio and IF/SF = intermuscular fat/subcutaneous fat ratio

Mean (%)  $\pm$  SE for yields of commercial cuts of Serpentina kids

	Leg	Loin	Ribs	Shoulder	Flank	Neck
Means	33.1	8.8	15.9	21.2	11.4	9.7
SE	1.1	0.6	1.2	0.8	1.1	0.9

Means for coordinates of color of carcass surface of Serpentina kids

	position	L*	a*	b*
lateralis	Leg	52.8	8.9	5.5
	Loin	57.3	5.4	3.3
	Shoulder	50.9	9.6	3.9
medialis	Leg	50.7	9.1	4.2
	Loin	48.5	12.8	5.1
	Flank	49.6	15.5	6.5

Meat characteristics of Longissimus dorsi (LD) and Semimembranosus (SM) muscles of Serpentina kids

	Shear force (kg)	WHC <sup>a</sup> %	L*	a*	b*
LD	6.0	29.8	46.0	10.9	4.6
SM	6.5	29.0	49.0	12.1	4.0

<sup>a</sup> Water holding capacity

## CONCLUSIONS

Serpentina kids offer a high quality product, with high lean yield, light pink meat and shear force values similar to products obtained from other Portuguese local breeds.