

BREED EFFECT ON MEAT COLOUR AND VISIBLE SPECTRUM OF SPANISH SUCKLING KIDS

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Abstract 7767
Presentation nº 22

Session 16
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1. INTRODUCTION

Spain has one of the largest goat population in the European community. Most of the goats in Spain are milk breeds but goat meat production is high. The most widely used systems in goat farming in Mediterranean countries involves the slaughter of kids with a low live weight ranging approximately between 10 and 11. But there are different management systems (intensive and extensive) with different final product (milk-meat or only meat). Meat colour is one of the most important parameters that a consumer value at the purchase act.

So the objective was to evaluate the meat colour parameters of suckling kids between different Spanish breeds.

2. METHODS

- 105 male kids (4,2 kg average cold carcass weigh)
- Seven breeds: Blanca Celtiberica, Moncaina, Negra Serrana-Castiza, Blanca Andaluza, Pirenaica, Murciano-Granadina and Malagueña
- Variables measured at 24 hours ageing-time
- All the kids were reared with their dams until slaughter
- Breed effect on colour meat and visible reflectance in *Longissimus dorsi* after 1 hour of blooming
- By multivariate GLM and stepwise discriminant analysis

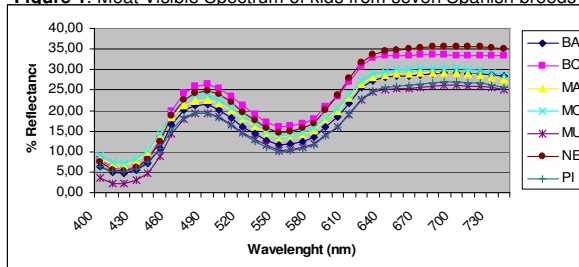
3. RESULTS

Table 1. Meat colour of kids from seven Spanish breeds

Breed	L*	a*	b*	C*	h*
Blanca Celtiberica	52.61	1.50	12.30	12.56	83.21
Moncaina	49.77	3.02	6.62	7.57	64.53
Negra Serrana-Castiza	51.09	4.41	11.88	12.77	68.08
Blanca Andaluza	46.72	3.64	8.58	9.47	64.97
Pirenaica	44.30	4.60	6.03	7.87	53.43
Malagueña	49.22	2.86	7.28	8.06	66.56
Murciano-Granadina	44.74	1.64	11.45	11.67	68.08



Figure 1. Meat Visible Spectrum of kids from seven Spanish breeds



BA: Blanca Celtiberica, BC: Blanca Celtiberica, MA: Malagueña, MO: Moncaina, MU: Murciano-Granadina, NE: Negra Serrana, PI: Pirenaica

4. CONCLUSIONS

Breed had great influence on kid meat colour. But all the parameters were into the range of a light colour of meat belonging to young animals meat preferred by consumers. A discriminant analysis with colour and visible spectrum of the muscle was not able to classified into their breeds (only 62,7% of accuracy).