

Plasma pregnancy specific protein B (PSPB) in days 25, 26 and 28 in two beef cattle breeds



Noya A.^{1*}, Casasús I.¹, Alabart J.L.¹, Serrano-Pérez B.², Villalba D.², Rodríguez-Sánchez J.A.¹, Ferrer J.¹, Sanz A.¹

¹CITA de Aragón - IA2. Zaragoza, Spain. ²Universitat de Lleida. Lleida, Spain.

*Corresponding author: anoya@cita-aragon.es



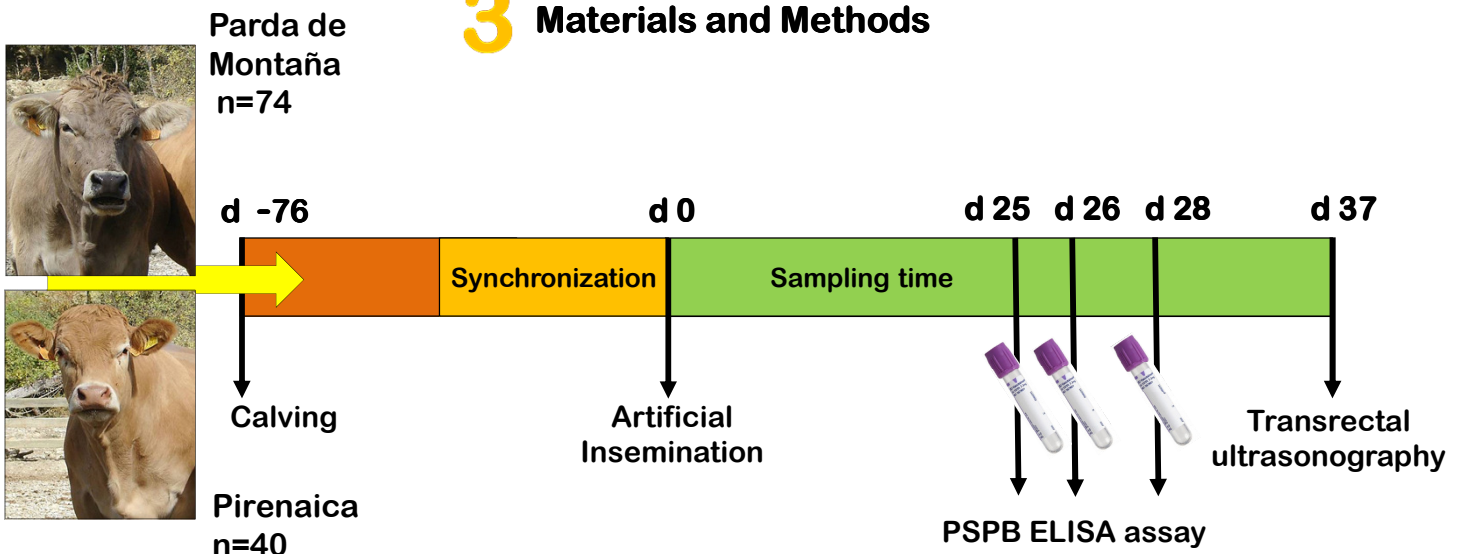
1 Introduction

Early detection of Pregnancy Specific Protein B (PSPB) could be an accurate pregnancy diagnosis method to reduce the calving interval in extensive beef cattle farming systems.

2 Objective

Determine, based on PSPB concentrations, the earliest day to accurately diagnose pregnancy in beef cows.

3 Materials and Methods



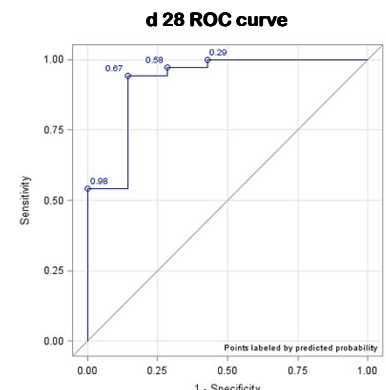
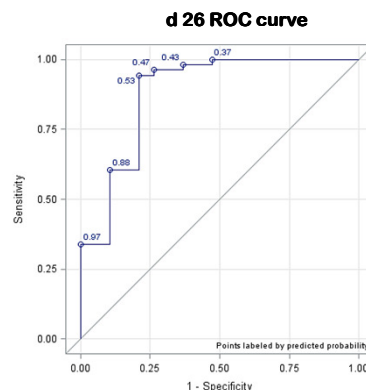
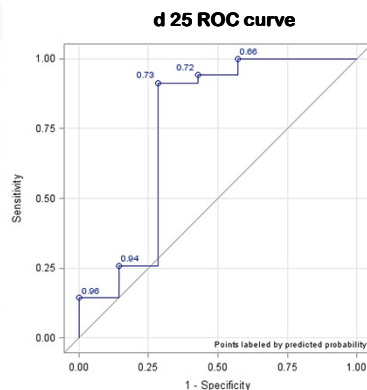
4 Results

4.1 PSPB concentrations (ng/ml)

	Non-pregnant	Pregnant
d 25	0.67 ^b	1.15 ^a
d 26	0.41 ^b	1.22 ^a
d 28	0.48 ^b	1.82 ^a

a ≠ b P<0.0001
No differences between breeds (P>0.05)

4.2 ROC curve analysis



No differences between d26 AUC and d28 AUC (P>0.1)

5 Conclusion

Implementing the plasma PSPB analysis on day 26 could be useful for early pregnancy diagnosis, with a similar accuracy to that obtained on day 28 and avoiding the lack of precision obtained on day 25