

SUPPLEMENTARY TABLES AND FIGURES

Tables S1 and S2

Fig S1

Comparative performance of tuberculin and defined-antigen cocktails for detecting bovine tuberculosis in BCG-vaccinated cattle in natural settings

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Supplementary Table 1 (Table S1). A 2×2 contingency table used to assess the measures bTB diagnostic tests performance

Antemortem Test	Postmortem test		Row Totals
	Positive	Negative	
Positive	a (TP)	b (FP)	a + b
Negative	c (FN)	d (TN)	c + d
Column Totals	a + c	b + d	(a + b + c + d) = N

TP = True positive, FN = False negative, FP = False positive, TN = True negative

Supplementary Table 2 (Table S2). Summary of concordant test outcomes between antemortem bTB diagnostic tests to supplement the data presented in the Venn diagram

DST skin, DST IGRA and CCT Tests						Concordance				
	PM+		PM-		Total	All three tests		Paired tests		
Treatment	Test+	Test-	Test+	Test-	Tested	Sum	Percent	DST IGRA & DST skin	DST IGRA & CCT skin	CCT & DST skin
Controls	21	23	0	3	65	47	47/65 (72%)	56/65 (86%)	52/65 (80%)	56/65 (86%)
Vaccinates	12	26	1 +/- 1	3	62	41	41/62 (66%)	49/62(79%)	46/62 (74%)	54/62 (87%)
Total	33	49	1 +/- 1	6	127	88	88/127 (69%)	105/127 (83%)	98/127 (77%)	110/127 (87%)
SIT, IGRA PPD (B-A) and/or PPD-B Tests						All three tests		Paired tests		
Treatment	Test+	Test-	Test+	Test-	Tested	Sum	Percent	SIT & IGRA PPD (B-A)	SIT & IGRA PPD-B	PPD (B-A) & PPD-B IGRAs
Controls	41	6	0 or 3	0	65	47	47/65 (72%)	57/65 (88%)	48/65 (74%)	54/65 (83%)
Vaccinates	35	7	1, 2 or 5	0	62	42	42/62 (68%)	53/62 (85%)	46/62 (74%)	47/62 (76%)
Total	76	13	-	0	127	89	89/127 (70%)	110/127 (87%)	94/127 (74%)	101/127 (80%)

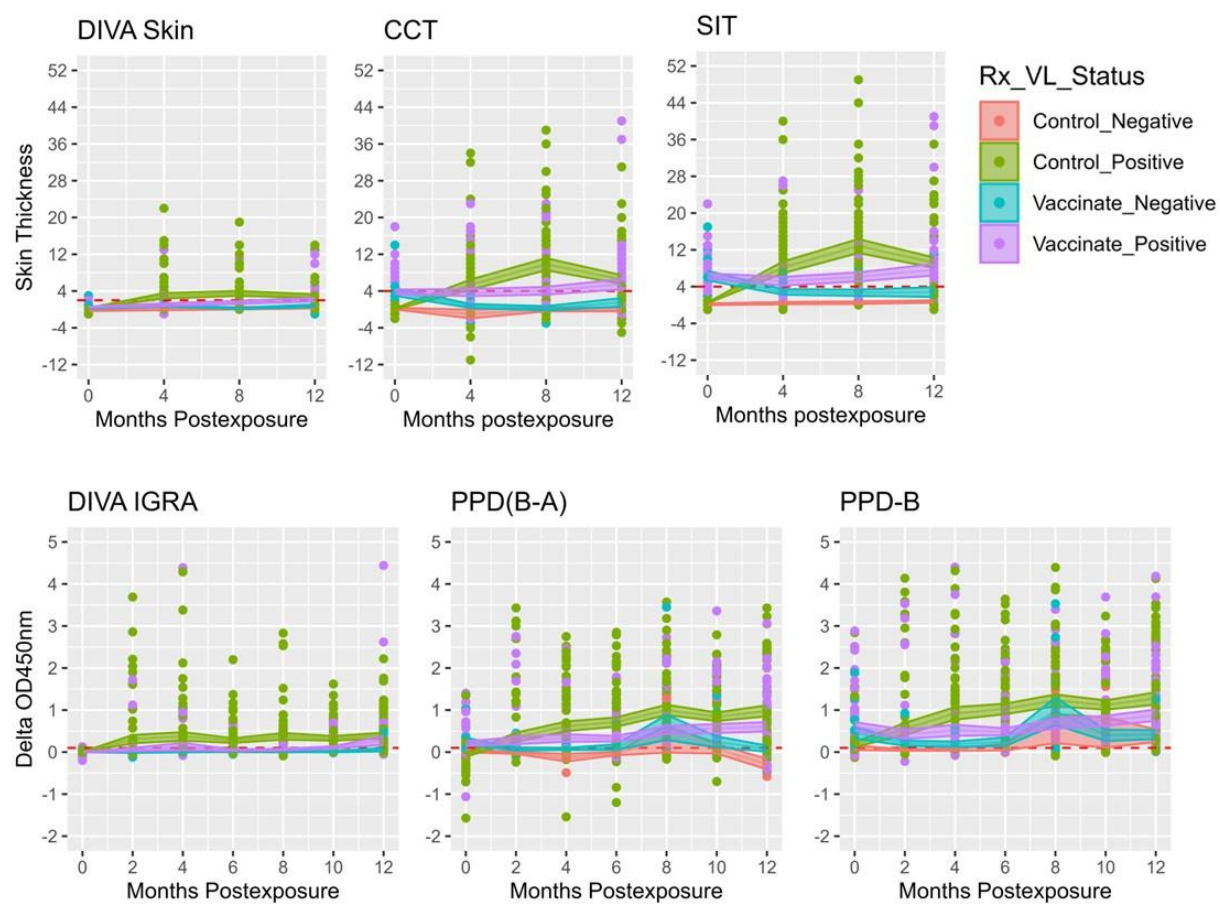


Fig. S1. Reduced skin test response at the fourth repeated test suggestive of desensitization in the skin test (upper 3 panels) but not in the IGRA test (lower 3 panels). The ribbon plots display the mean across all animals for each time point (line) and one standard error around the mean (shaded ribbon). Rx_VL_Status = Combination of treatment and visible lesion status of animals