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5% of their body weight from ne following year)
5% of their body weight from ne following year)
6.6 × 10 ⁹ CFU)
Bovacillus
/heifer
.40

NUBAL = NO DIODIOTIC ADDITION BAL = F	probiotic inclu	sion at 3	g/heife	er dailv
		Sion de Si	5/11211	in duriy
Heifer growth performance				
	Supplement treatmen			
Item	NOBAC	BAC	SEM	P-value
Heifer BW, Ib				
Day 0 (Sep)	571	571	6.7	0.97
Day 109 (Start of AI and breeding season)	774	770	6.7	
Day 211 (End of breeding season)	866	865	6.7	
Day 244 (Pregnancy diagnosis)	969	967	6.7	
Mature body weight (start of breeding season), %	70.3	70.0	0.7	0.77
ADG, lb/day				
Day 0 to 109 (Start of study to start of breeding)	1.81	1.78	0.07	0.76
Day 109 to 244 (Breeding season)	1.49	1.48	0.05	0.88
Day 0 to 244 (overall)	1.63	1.62	0.04	0.92

NOBAC - NO problotic addition	DAC - FIU		at a gloott	or daily			
		sione inclusion	at 5 g/nem	er dany			
Heifer reproductive performance							
Supplement treatment							
Item	NOBAC	BAC	SEM	P-value			
Pubertal, % of total							
Day 60	6.7	24.1	6.6	0.06			
Day 90 (Start of synchronization)	17.2	26.7	7.8	0.39			
Repro Tract Score, 1 to 5 scale							
Day 60	3.55	3.87	0.17	0.21			
Day 90 (Start of synchronization)	3.72	4.00	0.12	0.12			
Detected in estrus, % of total	32.7	44.5	9.0	0.35			
Pregnant, % of total							
Al	37.5	52.5	9.1	0.24			
AI + Bull	73.3	72.4	8.4	0.94			
Pregnancy loss, % of total							
Al	6.7	6.8	4.7	0.97			
AI + Bull	Nov 2024	Nov 2024					
Calved, % of total	Nov 2024	Nov 2024					
Calving distribution. % of total	Nov 2024	Nov 2024					







Pregnant heifers







BAC = 3g of *Bacillus*-based DFM from day 0 to 242 CON = No *Bacillus* supplementation from day 0 to 242

	Maternal treatment			P-value	
	CON	BAC	SEM	Treatment	
First offspring (Calves in utero when treatments were provided)					
Calving, % of total	96	91	4.22	0.45	
Calving date, day of the study	142	135	4.10	0.22	
Male calves at birth, % of total	48	54	9.21	0.63	
Calf birth BW, lb	62	65	0.99	0.34	
Second offspring (Calves conceived from day 242 to 312)					
Pregnant, % of total	89	89	5.35	0.97	
Calving, % of total	84	88	7.83	0.76	
Calving date, day of the study	554	556	4.60	0.61	
Male calves, % of total	52	52	12.00	0.94	

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Multiparous cows

















