Effect of Protected B Vitamins for Lactation on reproductive performance in dairy cows



From: Juchem S.O., Robinson P.H., Evans E. Animal Feed Science and Technology 174 (2012) 68-78

OBJECTIVE

Evaluate the impact of feeding the **Jefo blend of Protected B Vitamins for Lactation** (Folic Acid, B12, Biotin, Pyridoxine and Pantothenic acid) during the lactation period on reproductive performance in dairy cows.

MATERIAL AND METHODS

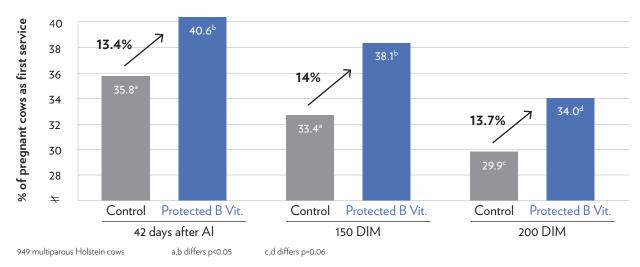
Multiparous cows, housed in free-stall barn, were fed a typical Californian Total Mixed Ration (TMR).

- Conducted on a commercial farm by the University of California at Davis.
- 949 multiparous Holstein cows, calving between November 2007 and April 2008
- Feeding period: from 22 DIM until confirmed pregnant.
- Diet typically consisted of Corn silage, Dry alfalfa hay, wheatlage, by product feeds, flaked corn, soy/canola/DDGS, almond hull blends and Premix
- Control group: No Protected B vitamins
 Treatment group: Jefo blend of Protected B Vitamins for Lactation (Folic acid, B12, Biotin, Pyridoxine and Pantothenic acid)
- No voluntary period and no synchronization program
- Visual estrus detection (tail chalking), pregnancy by manual rectal palpation.
- DairyComp data used until 200 Days in Milk (DIM), cows which were not bred by 200 DIM were removed from the trial.

RESULTS

With the supplementation of the blend of protected B vitamins :

- 13% increased in first service conception rate when cows were fed the protected B Vitamins blend.
- The **improvement** in pregnancy was maintained **up to 200 DIM**.
- 20% reduction in culling rate from 22 to 200 DIM.



Graphic 1. Effect of a dietary supplementation **Jefo blend of Protected B Vitamins for Lactation** on first service conception rate.

CONCLUSION

A dietary supplementation of the Jefo blend of Protected B Vitamins for Lactation during the lactation period improved the reproductive performance of dairy cows with a 13% increased in first service per conception.