



FOCUS ON RESEARCH



ORIGINAL XP™ HELPS PREVENT MILK FAT DEPRESSION

Research¹ was conducted at Michigan State University to investigate the effects of Diamond V Original XP Yeast Culture on milk fat and milk yield during a dietary challenge.

RESEARCH SUMMARY

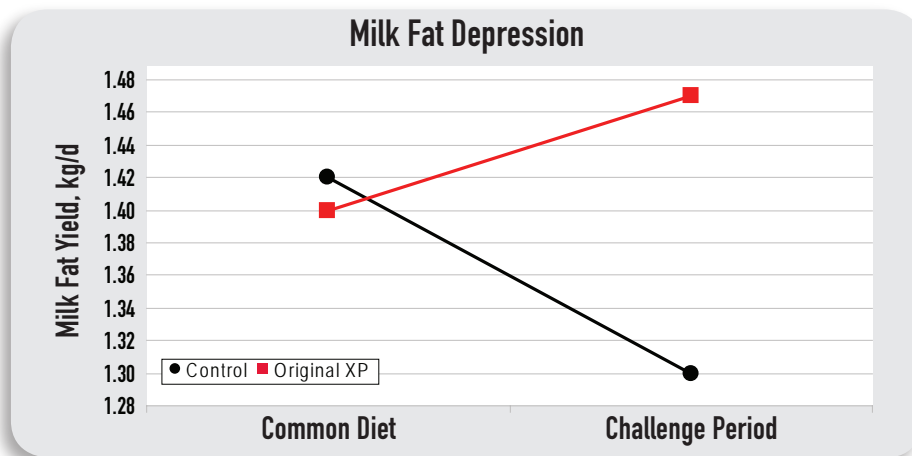
Eight ruminally cannulated mid-lactation multiparous Holstein cows were assigned randomly to a treatment sequence in a crossover designed experiment with 28 d periods.

- A common base diet was fed to all animals from day 1 through 26 of each period followed by a two-day dietary challenge in which finely ground high moisture shelled corn (HMC) replaced dry ground shelled corn (DC) in the base diet on an equal dry matter basis.
- Treatments consisted of: 1) a mix of dry, finely-ground shelled corn and soybean meal (control) and 2) Original XP. Treatments were topdressed at 56 grams per head per day.

RESULTS

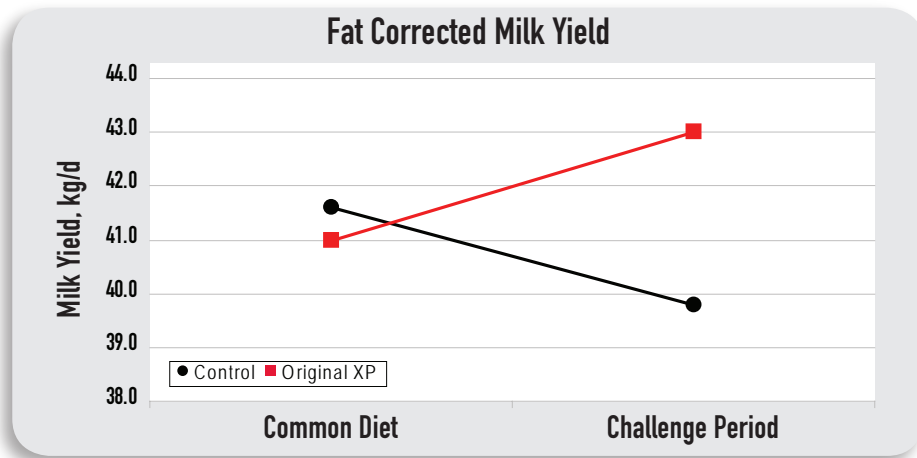
Research showed that supplementing dairy rations with yeast culture increased milk yield and prevented milk fat depression during the dietary challenge.

- Milk fat concentration decreased for cows fed the control treatment when challenged with HMC compared to DC, but increased during the dietary challenge for cows fed the Original XP treatment ($P = 0.006$).



RESULTS, CONT.

- Fat corrected milk yield also decreased for the control cows and increased for the cows fed the Original XP treatment group during the dietary challenge ($P = 0.004$).



- Further research will be conducted to determine the mechanism by which yeast culture increased milk fat concentration and yield during the dietary challenge.



If you would like more information on this study, please contact your local sales representative, call 800-373-7234 or visit www.diamondv.com.



1 Longuski RA, Ying Y, Allen MS. 2009. Yeast culture supplementation prevented milk fat depression by a short-term dietary challenge with fermentable starch. J. Dairy Sci. 92: 160-167.

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