

Journal of Dairy Science

April 1987

Volume 70, Number 4

CONTENTS

NEWS AND EVENTS	5
GENERAL INTEREST:	
Administrative Information	4
DAIRY FOODS RESEARCH PAPERS:	
Effect of <i>Lactobacilli</i> on the Properties of Swiss Cheese. V. L. Di Palma, E. G. Hammond, and B. A. Glatz	733
Purification and Characterization of X-Prolyl Dipeptidyl-Amino-peptidase from <i>Lactobacillus lactis</i> and from <i>Streptococcus thermophilus</i> . J. Meyer and R. Jordi	738
Survival of Lipase During Manufacture of Nonfat Dry Milk. K. Shamsuzzaman, W. Modler, and R. C. McKellar	746
One-Step Isolation of Lactoferrin Using Immobilized Monoclonal Antibodies. H. Kawakami, H. Shinmoto, S. Dosako, and Y. Sogo	752
Use of Polar Aprotic Solvents to Release Membranes from Milk Lipid Globules. C. H. Dapper, H. M. Valivullah, and T. W. Keenan	760
Fractionation of Nonfat Dry Milk Powder into Protein and Lactose Products. H. W. Modler, D. B. Emmons, J. R. Rolland, and J. Holme	766
DAIRY FOODS TECHNICAL NOTES:	
Within-Day Variation of Taurine and Other Nitrogen Substances in Human Milk. R. M. Clark, S. A. Ross, D. W. Hill, and A. M. Ferris	776
PRODUCTION RESEARCH PAPERS:	
Role of the Isocitrate Dehydrogenases and Other Krebs Cycle Enzymes in Lactating Bovine Mammary Gland. H. M. Farrell, Jr., J. T. Deeney, K. Tubbs, and R. A. Walsh	781
Plasma Amino Acids and Milk Protein Production by Cows Fed Rumen-Protected Methionine and Lysine. J. A. Rogers, U. Krisnamoorthy, and C. J. Sniffen	789
Alteration of Fermentation in Continuous Culture of Mixed Rumen Bacteria by Isolated Alfalfa Saponins. C. D. Lu, L. S. Tsai, D. M. Schaefer, and N. A. Jorgensen	799

Determination of Forage Quality by Near Infrared Reflectance Spectroscopy: Efficacy of Broad-Based Calibration Equations. S. M. Abrams, J. S. Shenk, M. O. Westerhaus, and F. E. Barton, II	806
Extruded Soybeans and Corn Gluten Meal as Supplemental Protein Sources for Lactating Dairy Cattle. R. J. Annexstad, M. D. Stern, D. E. Otterby, J. G. Linn, and W. P. Hansen	814
Effects of Feeding Monensin to Lactating Goats: Acetyl Coenzyme A Carboxylase, Hormone-Sensitive Lipase, Plasma Glucose, and Circulating Hormones. D. L. Brown and D. E. Hogue	823
Effects of Varying the Amounts of Dietary Calcium on Selenium Metabolism in Dairy Calves. E. Alfaro, M. W. Neathery, W. J. Miller, R. P. Gentry, C. T. Crowe, A. S. Fielding, R. E. Etheridge, D. G. Pugh, and D. M. Blackmon	831
Lack of Evidence of Cytoplasmic Inheritance in Milk Production Traits of Dairy Cattle. P. D. Reed and L. D. Van Vleck	837
Estimation of Genetic (Co)Variances for Milk Yield in First Three Lactations Using an Animal Model and Restricted Maximum Likelihood. H. Swalve and L. D. Van Vleck	842
Relationship of Sire Fertility to Acrosome-Reacted and Motile Spermatozoa After Treatment with Liposomes. A. P. Davis and R. H. Foote	850
Estrous Synchronization and Establishment of Pregnancy in Bovine Embryo Transfer Recipients. D. A. Coleman, R. A. Daily, R. E. Leffel, and R. D. Baker	858
Field Trial Evaluation of Premilking Teat Disinfection. J. W. Pankey, E. E. Wildman, P. A. Drechsler, and J. S. Hogan	867
Effects of Teat Dipping on Intramammary Infections by Staphylococci other than <i>Staphylococcus aureus</i> . J. S. Hogan, D. G. White, and J. W. Pankey	873
Comparisons of Some Screening Tests for Detecting Mastitis. U. Emanuelson, T. Olsson, O. Holmberg, M. Hageltorn, T. Mattila, L. Nelson, and G. Aström	880

PRODUCTION TECHNICAL NOTES:

Abomasal pH, Nutrient Digestibility, and Growth of Holstein Bull Calves Fed Acidified Milk Replacer. S. T. Woodford, H. D. Whetstone, M. R. Murphy, and C. L. Davis	888
--	-----

OUR INDUSTRY TODAY:

Compositional Analysis of Commercial Whey Drinks. P. Jelen, R. Currie, and V. W. Kadis	892
Survey of Calf and Heifer Management Practices in Pennsylvania Dairy Herds. A. J. Heinrichs, N. E. Kiernan, R. E. Graves, and L. J. Hutchinson	896