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Enzymatic Assay for the Combined Determination of Plasmin Plus Plasminogen in Milk: Revisited

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The ability of β -lactoglobulin variants A and B, α -lactalbumin, and BSA to inhibit plasmin plus plasminogen activity was examined. Data showed that β -lactoglobulin A at concentrations of .2 and 1 mg/ml inhibited plasmin plus plasminogen activity by 18 and 54%. β -Lactoglobulin B had no effect on plasmin plus plasminogen activity. At concentrations of .2 and 1 mg/ml, BSA inhibited plasmin plus plas



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pronounced in samples with high whey protein content (late lactation milk and milk obtained from mastitic quarters). To avoid this problem, we have modified the existing methodology. Our modification allows plasmin determination without interference from whey proteins and other plasmin inhibitors that are present in the serum fraction of bovine milk.

Key Words: plasmin • plasminogen • whey proteins

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