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# Assays for Native Plasminogen Activators in Bovine Milk

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Assays for bovine milk plasminogen activators were developed. The colorimetric assay for bovine milk plasminogen activators was based on plasmin cleavage of the synthetic substrate Spectrozyme™. This substrate cleavage yielded the yellow chromophore *p*-nitroanilide, which was quantified spectrophotometrically at 405 nm with an ELISA plate reader. Correlation coefficients were >.995 for the linear regions of the standard curves for the assays. Modification of a previously reported casein-plasminogen SDS-PAGE system allowed visualization of plasminogen activators from bovine milk. This system can be used to determine the molecular mass of the milk plasminogen activators in a sample containing plasminogen activator inhibitors.

Key Words: assays •plaminogen activators •bovine milk

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L. Wang, K. D. Hayes, and L. J. Mauer Fluorescent Labeling Study of Plasminogen Concentration and Location in Simulated Bovine Milk Systems J Dairy Sci, January 1, 2006; 89(1): 58 - 70. [Abstract] [Full Text] [PDF]

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