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Journal of Dairy Science Vol. 76 No. 9 2500-2506 © 1993 by <u>American Dairy Science Association ®</u>	
Free D- and L-Amino Acids from Hydrolyzed Milk Proteins by <i>Pseudomonas fluorescens</i> ATCC 948	This Article Full Text (PDF) Alert me when this article is cited Alert me if a correction is posted Services
M. Gobbetti ¹ , C. Magnarini ¹ , J. Rossi ¹ , L. Cossignani ¹ , and P. Damian ¹	 Similar articles in this journal Alert me to new issues of the journal Download to citation manager
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Cell-associated peptidase activity of <i>Pseudomonas fluorescens</i> ATCC 948 was studied on hydrolyzed milk proteins. The substrate was produced by	<u>Citing Articles via Google Scholar</u> Google Scholar
treatment of the UHT skim milk with neutral endoprotease B500. The cell-associated peptidase activity was determined by gas chromatographic analysis of free D- and L-amino acids. The total free	 Articles by Gobbetti, M. Articles by Damian, P. Search for Related Content
amino acids were higher when the cell-associated peptidases acted on hydrolyzed milk proteins (202.8 μ g/ml) rather than on unhydrolyzed skim milk (63.9 μ g/ml). Glutamic acid (65.1 μ g/ml), Leu (36.9 μ g/ml).	PubMed Articles by Gobbetti, M. Articles by Damian, P.

and Ala (16.5 μ g/ml) were the most abundant. Concentrations of D-amino acid isomers (28.3 and 3.7 μ g/d for D-Glu and D-Ala, respectively) also were high. Hydrolysis of the dipeptide L-leucyl-L-leu was 61% but was minimal for the other D- and L-configurational isomers of the dipeptide.

Key Words: *Pseudomonas fluorescens* • peptidases • bitter taste • D-amino acids

Submitted on August 12, 1992 Accepted on March 17, 1993

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