

Antimicrobial property study of enzymatic hydrolysate prepared from porcine erythrocytes ⁽¹⁾

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Abstract

Enzymatic hydrolysate with anti *Streptococcus suis* and *Bacillus subtilis* activity were prepared from porcine erythrocytes by a double-enzyme reaction process. The hydrolysate was fractionated and purified by RP-HPLC and anion-exchange chromatography. The antimicrobial component was possible an iron-peptide with a molecular weight approximate 3 kDa. The antimicrobial component prepared by a pilot-scale production process was shown able to reduce loose stools or diarrhea of piglets in a five-week period animal test.

Key words: Antimicrobial peptides, Enzymatic hydrolysis, Porcine blood.

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