Characterization of the Bacteriophage-Derived Endolysins PlySs2 and PlySs9 with In Vitro Lytic Activity against Bovine Mastitis

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| Abstract | Bovine mastitis, an infection of the cow's mammary gland, is frequently caused by and causes major economic losses in the dairy industry. The development of alternative therapeutic strategies is therefore crucial. In this study, we characterized two bacteriophage-derived endolysins, PlySs2 and PlySs9, for their potential use in the treatment of bovine mastitis. These endolysins were tested for their in vitro lytic activity against several bovine mastitis-causing bacteria. PlySs2 and PlySs9 exhibited potent lytic activity against the tested strains, making them promising candidates for future add-on or replacement strategies to the currently used intramammary antibiotics. |
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