

عنوان مقاله:

Cloning and secretory expression of HA1 and HA2 gene of avian influenza H9N2 gene in *Lactococcus lactis*

محل انتشار:

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خلاصه مقاله:

H9N2, a type of influenza virus, is one of the major problems that poultry farms in Iran are facing nowadays. In this study, a part of HA1 and HA2 genes, coding for antigenic sites of virus, were amplified and cloned into suitable lactococcal expression system as preliminary step for construction and evaluation of a live vaccine. The target gene was amplified by RT-PCR and cloned into pNZ8110, lactococcal expression vectors, for expressing secretory heterologous protein, to yield and pNZ8110-HA/S. After preliminary transformation into *E. coli* MC1061, the plasmids were extracted and transformed to *L. lactis* NZ9000 by electroporation. During each steps, the location and accuracy of genes sequence were confirmed by colony PCR, restriction enzyme analysis and sequencing. SDS-PAGE and silver staining of purified His-tagged proteins from recombinant bacteria revealed that the HA was successfully expressed in secretory form.

کلمات کلیدی:

H9N2, HA1 genes, HA2 genes, *L. lactis* NZ9000, SDS-PAGE

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