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Amplification, cloning and expression of *Brucella melitensis bp*26 gene (OMP28) isolated from Markazi province (Iran) and purification of Bp26 protein

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Brucellosis is a debilitative disease that imposes costs on both economy and society. It is shown that although the vaccine can prevent abortion, it does not provide complete protection against infection. In Iran, *Brucella melitensis* is a common causative agent for brucellosis and BP26 protein of this bacterium having a good antigenesity and an important vaccine candidate. In this study *B. melitensis bp*26 gene was cloned first in to PTZ57R/T vector and accessed on the PET28a vector and sequenced. Recombinant vector transformed and expressed in to *E. coli* BL21 (DE3) and then recombinant protein was purified with Ni-NTA column of chromatography against His tag. Obtained rOmp28 could be used as a research experimental tool to find its potential as a detection kit and vaccine candidate.

Biography

Hosseini Seyed Davood currently as Dean at Razi Vaccine & Serum Research Institute Central Area branch (Arak), Iran.

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