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Expression of segment a of infectious bursal disease virus in *Pichia pastoris*

(Article)

Ghazali, M.S.^e, Raus, R.A.^a , Amin, N.M.^b, Shohaimi, S.A.^c, Abu Bakar, F.D.^d, Zainuddin, N.^e, Jimat, D.N.^a, Nor Muhammad, N.A.A.^e 

^aDepartment of Biotechnology Engineering, Kulliyah of Engineering, International Islamic University Malaysia, P.O. Box 10, 50728 Kuala Lumpur, Malaysia

^bPusat Penyelidikan Bioteknologi, Ibu Pejabat MARDI, Serdang, Selangor, Malaysia

^cVeterinary Research Institute, Jalan Sultan Azlan Shah, Ipoh, Perak, Malaysia

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Abstract

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Recombinant plasmid containing segment A open reading frame 2 (ORF2) gene of infectious bursal disease virus (IBDV) of a very virulent subtype from local outbreak (strain 3529/92) was constructed. The gene encoding the IBDV structural polyprotein (N-VP2-VP3-VP4-C) was inserted into an expression vector, pPICZ prior to its transformation into *Pichia pastoris* by electroporation. After the induction of *P. pastoris* transformant with 0.5% methanol, the production of IBDV polyprotein was observed using Western blot. In *P. pastoris*, co- or post-translational processing of the large polyprotein occurred, generating a stable C-terminal product (VP3) of correct size, but without any detectable N-terminal product (VP2). The failure to observe the VP2 protein in Western blot analysis was probably due to the conformational epitope problem.

Author keywords

IBDV expression [Pichia pastoris](#) [Segment A](#) [Vaccine](#)

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