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Journal of Pure and Applied Microbiology  
Volume 8, Issue SPEC. ISS. 1, May 2014, Pages 875-879

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

(Article)

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

<sup>a</sup>Department of Biotechnology Engineering, Kulliyah of Engineering, International Islamic University Malaysia, P.O. Box 10, 50728 Kuala Lumpur, Malaysia

<sup>b</sup>Pusat Penyelidikan Bioteknologi, IbuPejabat MARDI, Serdang, Selangor, Malaysia

<sup>c</sup>Veterinary 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.

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### Author keywords

IBDV expression   *Pichia pastoris*   Segment A   Vaccine

ISSN: 09737510

Source Type: Journal

Original language: English

Document Type: Article

Publisher: Journal of Pure and Applied Microbiology

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