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Dietary choline requirements with or without lecithin for growth, immunity, antioxidants, digestibility, gene expression and ammonia stress resistance for *Penaeus vannamei*

Kim, Suhyeok; Lim, Jongho; Bae, Jinho; Kim, Min-Gi; Lee, Kyeong-Jun
Animal Feed Science And Technology

This study investigated the effects of different dietary choline levels with or without lecithin supplementation on growth performance, innate immunity, antioxidant capacity, choline metabolism-related gene expression, and ammonia stress...

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เรื่องที่นำผลงานไปอ้างอิง

Dietary choline requirements with or without lecithin for growth, immunity, antioxidants, digestibility, gene expression and ammonia stress resistance for *Penaeus vannamei*

By Kim, S.-Hyeon, Sehyeonki ; Lee, J. (Joon, Jongho) ; Han, J. (Jae, Jinhye) ; Han, H.G. (Hyeon, Min-Gi) ; Lee, K.J. (Kyeon, Kyung-Ju)

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Abstract This study investigated the effects of different dietary choline levels with or without lecithin supplementation on growth performance, innate immunity, antioxidant capacity, choline metabolism-related gene expression, and ammonia stress resistance in Pacific white shrimp (*Penaeus vannamei*). Eight experimental diets were prepared to contain choline at levels of 2000, 4000, 8000, and 16000 mg/kg diet, either without lecithin or with 0.25% lecithin. Shrimp were fed to satiation for 12 weeks. Initial body weight: 0.33 ± 0.01 g. After 12 weeks, the study for

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