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ORIGINAL ARTICLE

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Assessment of total dietary phosphorus requirement of juvenile largemouth bass, *Micropterus salmoides*, using soybean meal-based diets: Effects on production performance, tissue mineralization, physiological parameters in plasma and intestine and expression of head-kidney genes

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Abstract

A 9-week feeding trial was conducted to evaluate effects of supplemental phosphorus (P) in soybean meal (SBM)-based diets for largemouth bass (LMB). Six isonitrogenous (~400 g/kg crude protein) and isolipidic (~130 g/kg crude lipid) diets containing non-phytic acid phosphorus (nPA-P) ranging from 4.1 to 10.5 g/kg were fed twice daily to triplicate groups of 20 feed-trained LMB (9.5g). Upon conclusion of the feeding trial, regression analyses showed that growth, feed efficiency and survival of LMB were unaffected by diet. Intraperitoneal fat index and whole-body lipid content of LMB decreased linearly as dietary nPA-P increased from 4.1 to ~7.0 g/kg, while protein retention efficiency increased quadratically over the dietary range of nPA-P. Regressions on whole-body P and skeletal mineral (P, Ca, Mg and Zn) concentrations of LMB revealed optimal levels when dietary nPA-P was ~7.0 g/kg. Increasing trends of MDA concentration and ALT activity in plasma and GP_x activity in intestine in response to dietary nPA-P were observed. Head-kidney genes responded to dietary treatments and expression of GH, IGF-1 and TGF-β1 were highest and that of TNF-α was lowest when dietary nPA-P was 6.9 g/kg. Based on our results, practical diets for juvenile LMB should contain a minimum of 7.0 g/kg total nPA-P.

KEYWORDS
antinutritional factor, eutrophication, mineral, phytate, phytic acid, plant feedstuffs

1 | INTRODUCTION

One of the current major topics of research is the continued development and evaluation of alternative protein feedstuffs to fishmeal in aquaculture feeds. While several protein feedstuffs have been utilized in the diet of aquatic animals, the use of plant-based ingredients in commercial feeds has increased rapidly in recent years (Tacon & Metian, 2015). Among the plant-protein feedstuffs currently available for use in feeds, SBM has been the leading ingredient (Trneil et al., 2014) because of a number of favourable characteristics including wide availability at competitive prices, high protein content comprised by a reasonably well-balanced amino acid profile and relatively high nutritional value (Daniel, 2018; Gatlin et al., 2007).

Nevertheless, contrasting with the high protein availability of SBM is its low availability of phosphorus (P) to monogastric animals, including fish, which has been shown to be as low as 220 g/kg of total P (Sugiura et al., 1998). Such low availability of P is due to the inability of fish to degrade phytic acid (PA), the hexaphosphate

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. . In the climax of the movie, Razia saves Sanjana from the angry mob in which her lover and some of the gangsters are being held. She is immediately accused of being an accomplice of the gangsters by Sanjana's mother. The movie ends with Razia and Sanjana deciding to go to Razia's parent's house and call her parents for assistance. They think this will clear her name and allow her to escape. A further mission which Razia embarked on in this film was to rescue her estranged father, nicknamed "Mian" (Grandpa), who has been thrown in jail on false charges of trying to kill Razia's mother and her lover, due to the fact that Razia's mother did not get on well with her lover. Cast Ajay Devgn as Dev, Razia's father Kabir Bedi as Razia's father's friend Alok Nath as Mian Rekha as Razia's mother Raza Murad as Rahim Mukesh Khanna as Jailor Anupam Kher as Raj M.S. Narayana as Sanjana's father Avtar Gill as Sanjana's father's neighbour Vijayendra Ghatge as Sanjana's mother's neighbour Suresh Oberoi as Sanjana's mother's neighbour Asrani as Raghunath Rupin Kalra as Raju Satish Shah as Ravi Soundtrack References External links Category:2000 films Category:2000s Hindi-language films Category:Indian films Category:Films scored by Anu Malik Category:Films scored by Datta Ramzan Category:Indian action drama films Category:Indian action thriller films Category:Films about actors Category:Indian films about revenge Category:2000s action drama films Category:2000s action thriller filmsA comparison of the effects of inhaled fluticasone propionate and beclomethasone dipropionate in adults with mild asthma. Inhaled corticosteroids are the mainstay of therapy for asthma, but their effects on mucosal health have not been studied. This double-blind crossover study compared the effects of 4 weeks' treatment with two inhaled corticosteroids, fluticasone propionate (FP) and beclomethasone 82157476af

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