
Effects of tea polyphenols on growth performance, antioxidant effect and non-specific immune indices of *Oreochromis niloticus*

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Abstract: Tea polyphenols of 0, 83,166, 333, 666mg/kg were added in diets respectively and given to feed *Oreochromis niloticus*. The growth performance, anti-oxidant effect and non-specific immune indices of *O.niloticus* were also analyzed.The results showed that WGR and SGR of group 166mg/kg were increased by 16.99%and 7.72%separately than that of the control group and the FCR was not significantly different.The immune indices were effected by tea polyphenols.The phagocytic index and serum lysozyme activity of group 166mg/kg were increased by 97% and 51.8% separately, this dose of tea polyphenols could also improve SOD activity.The liver CAT activity of 333mg/kg was increased but the GSH-Px activity of liver, serum and muscle were not significantly different.

Key words: tea polyphenols; *Oreochromis niloticus*; growth performance; phagocytic index; antioxidant