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Effects of dietary yeast culture on growth performance, immune response and disease resistance of gibel carp (*Carassius auratus gibelio* CAS III)

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ACCEPTED MANUSCRIPT

1	Effects of dietary yeast culture on growth performance, immune response and
2	disease resistance of gibel carp (<i>Carassius auratus gibelio</i> CAS)
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12	
13	Running title: The immune response of gibel carp to yeast culture
14	Keywords: yeast culture, Carassius auratus gibelio, growth, immunity, Aeromonas
15	hydrophila
16	
17	Abstract
18	A 50-day feeding trial was carried out to evaluate the partial replacement of fishmeal
19	by yeast culture (YC) on growth performance, immune response and resistance
20	against Aeromonas hydrophila in gibel carp CAS [] (Carassius auratus gibelio). Four
21	isonitrogenous and isoenergetic practical diets including a basal diet (the control diet

containing 10% fish meal, D0) and three yeast culture diets (substituting 20%, 40%,

23 60% of the fishmeal in the basal diet, D20, D40 and D60, respectively) were

24 formulated. Each diet was randomly allocated to quadruplicate fish groups (average

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