Replacement of groundnut cake with rubber (<i>Hevea brasiliensis</i>) seed cake in diets for Nile tilapia (<i>Oreochromis niloticus</i>)

Alegbeleye, WO; Oresegun, A; Akegbejo-Samsons, Y; Obasa, SO;  
Department of Aquaculture and Fisheries Management, University of Agriculture, Abeokuta, Nigeria;  
Nigerian Institute for Oceanography and Marine Research, Victoria Island, Lagos, Nigeria;  
Department of Aquaculture and Fisheries Management, University of Agriculture, Abeokuta, Nigeria;  
Department of Aquaculture and Fisheries Management, University of Agriculture, Abeokuta, Nigeria;  

Abstract/OtherAbstract :  
This study was carried out to determine the level of rubber seed cake (RSC) that could be used to replace groundnut cake (GNC) in practical diets of <i>Oreochromis niloticus</i>. RSC, a by-product of the oil extraction of the rubber tree seed and GNC were interchangeably replaced in the formulation of five experimental diets fed to the fish. Fish fed with 30% RSC inclusion level gave the best result with the highest SGR (1.73), best food conversion ratio [FCR (1.69)] and protein efficiency ratio [PER (1.97)]. These values were statistically superior (P > 0.05) to those of the other diets. This was followed by the group fed the control diet (CD), while the poorest result was obtained in the group fed test diet with 60% RSC inclusion level. This study showed that an equal replacement of GNC with RSC was best suitable as dietary protein source for <i>O. niloticus</i>.