Abstract

Vitamin C is essential for fish diets because many species cannot synthesize it. This vitamin is needed for bone and cartilage formation. Moreover, it acts as an antioxidant and improve the immunological system. The present work investigated the effects of vitamin C diet supplementation to spotted sorubim (Pseudoplatystoma coruscans (agassiz & spix, 1829) with vitamin C deficiency. Six diets were formulated: one diet control (0 mg/kg of vitamin C) and 500, 1,000, 1,500, 2,000 and 2,500 mg AP/kg diets. Fishes fed without vitamin C supplementation presented bone deformation in head and jaws, and fin fragilities. Thus, 500 mg AP/kg diet was enough to prevent deformation and the lack of vitamin C supplementation worsening the development of fingerlings.

Keywords

Scurvy, bone formation, siluriformes, ascorbic acid.