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(تأثير نترات الامونيوم على الانسجة سمكة البيطي (تيليا بيانيلوتيكا)

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Abstract : The effect of ammonium nitrate on the longevity of Tilapia fish, Oreochromis niloticus was determined. The sub-lethal concentration of Ammonium Nitrate was tested 5000 mg/l , and LD₅₀ was determined 5500 mg /l for 96 hour . Histopathological changes, in relation to exposure time and surrounding concentration of ammonium nitrate were observed in all five organs gills, liver, intestine, kidney and muscles of Tilapia fish. All organs were affected, with the Gills showing engorged and shrunked branchial lamellae, disintegrating of epithelial cells, branchial lamellae and gill filaments increased mucus causing sticking gill filaments. Intestinal folds were damaged with the release of lymphatic cells to the lumen. Disintegrating of Tunica Propria and mucosal epithelium. Liver was clearly affected showing iuegular hepatic strands with disintegration of hepatic cells. The central part of the liver was more damaged with bleeding and black precipitation. Pancreatic cells were disintegrated and lost its shape. Muscles have disintegrated its myofibrillae, muscle fibers and perimysium, iuegular or absent of dark and light bands. These changes may explain the behavioural differences which were observed in response to ammonium nitrate.

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