

SEMI-FINE PARASITE OF MARINE FISH

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NEMATODE PARASITE OF MARINE FISH

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**This project report is submitted in partial fulfillment of the requirement of the
degree of Bachelor of Science in Agrotechnology (Aquaculture)**

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ABSTRACT

The study of endoparasite is looking for nematode in Threambin bream (*Pentapodus Setosus*) or in Malay is called Anjang-anjang. These fish were bought from fishermen at Pulau Kambing, Terengganu. All fishes were examined and nematodes found in the intestine, pyloric ceaca and liver. Nematode found was *Spirocammallanus* species. The *Spirocammallanus* spp prevalence is 90% and mean intensity is 6.28. *Spirocammallanus* spp is dark red in color when collected alive. The female *Spirocammallanus* is bigger than the male. The buccal capsule continues and not separated with basal ring. It has an anterior region with 12-13 ridges. This species also has muscular and glandular esophagus. The measurement of female body length is 30.57×0.54 mm, buccal capsule is 0.09×0.07 mm, muscular esophagus is 0.54×0.08 mm, and glandular esophagus is 0.81×0.1 . While for male, their body length is 18.79×0.30 mm, buccal capsule is 0.08×0.07 mm, muscular esophagus is 0.43×0.07 mm and glandular esophagus is 0.65×0.09 mm.

ABSTRAK

Kajian endoparasit ini adalah untuk mencari nematode pada *Pentapodus Setosus* atau nama tempatannya ikan Anjang-anjang. Ikan Anjang-anjang telah dibeli daripada nelayan di Pulau Kambing, Terengganu. Ikan-ikan ini telah diperiksa dan didapati terdapat nematoda di dalam usus, ‘pyloric ceaca’ dan hati. Nematoda adalah daripada genus *Spirocammallanus*. Prevalens untuk *Spirocammallanus* spp adalah 90% dan min intensity pula adalah 6.28. *Spirocammallanus* spp adalah dapat ditentukan daripada ciri-ciri seperti warna badan yang merah gelap semasa dikutip hidup. *Spirocammallanus* spp betina adalah lebih besar berbanding dengan jantan. Rongga bukal yang bersambung dan tidak berpisah dengan cincin basal. *Spirocammallanus* spp mempunyai bahagian anterior dengan 12-13 (12) ‘ridges’. Selain itu spesies ini juga mempunyai esofagus berotot dan esofagus kelenjar (glandular). Ukuran panjang badan untuk *Spirocammallanus* spp betina adalah 30.57×0.54 mm, rongga bukal 0.09×0.07 mm, esofagus berotot 0.54×0.08 mm dan esofagus kelenjar (glandular) is 0.81×0.1 . Manakala untuk jantan panjang badannya adalah 18.79×0.30 mm, rongga bukal 0.08×0.07 mm, esofagus berotot 0.43×0.07 mm dan esofagus kelenjar (glandular) 0.65×0.09 mm.