

**MORPHOLOGICAL PROFILE TYPE *Anisakis* spp. ON THE  
MACKAREL TUNA FISH (*Euthynnus* sp.) AT TPI Kranji  
LAMONGAN USING SCANNING ELECTRON  
MICROSCOPE (SEM)**

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**ABSTRACT**

This study aims to determine the type of profile morphology *Anisakis* spp. and determine the prevalence and degree of *Anisakis* spp. infection in the mackerel tuna fish (*Euthynnus* sp.) at TPI Kranji Lamongan. A sample of 30 individuals mackerel tuna with size less than 40 cm and more than 40 cm observed their larvae stadium 3 of *Anisakis* spp. in the abdominal cavity, visceral organs and the musculus then did identification of *Anisakis* spp. carmine staining and *Scanning Electron Microscope* (SEM) then performed the calculation of the prevalence and degree of *Anisakis* spp. infection. The results showed that the *Anisakis* spp found in mackerel tuna at TPI Kranji Lamongan was *Anisakis* type 1 identified white larvae with a length of 15-25 mm and a width from 0.45 to 0.48 mm, length ventriculus of 0.69 to 0.74 mm, boring tooth with the size 12.45  $\mu\text{m}$  in anterior and mukron with a size of 13.9  $\mu\text{m}$  in posterior nerve ring, esophagus, intestine, extrectory pore, oral sucker and anus of *Anisakis* spp. Prevalence of *Anisakis* spp. on mackerel tuna in TPI Kranji Lamongan by 73.33% from the mackerel tuna with a size less than 40 cm by 50% and the size of more than 40 cm by 85%. The degree of infection amounted to 70.40 larvae per fish with a predilection difference *Anisakis* spp. was in the abdominal cavity as much as 59.45 larvae per organ, the musculus was not found *Anisakis* spp. and the visceral organs as much as 18.36 larvae per organ.

**Kata Kunci:** *Anisakis* spp., *Scanning Electron Microscope* (SEM), mackerel tuna (*Euthynnus* sp.), the prevalence, the degree of infection