AKTIVITAS TRIPSIN-LIKE DAN KIMOTRIPSIN-LIKE PADA IKAN SIDAT TROPIK Anguilla bicolor McClelland

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Abstract	The ability of eel (Anguilla bicolor McClelland) to digest feed protein is highly dependent on the alkaline proteases in the intestine which are trypsin-like and chymotrypsin-like. Information on the trypsin-like and chymotrypsin-like activities is needed to understand the digestive capacity of eels to ingest feed proteins. However, the information on this subject is insufficient. This research aimed to determine the activity of trypsin-like and chymotrypsin-like of eel on the different body weight and incubation temperature. Three groups of eel stadia were selected to represent different body weight, i.e., elver, yellow eel, and pre-silver stadia, and three different enzyme incubation temperatures of 30, 40, and $50\text{\AA}, \text{Å}^{\circ}\text{C}$ was applied. The trypsin-like and chymotrypsin-like activities of trypsin-like and chymotrypsin-like were significantly different between the body size and the intestine segment (P < 0.05). The highest trypsin-like and chymotrypsin-like activities were found in the elver stadia approximately 41.25 $\text{\AA}, \text{Å} \pm 0.898 \text{ g}$, in the anterior part of the intestine (P < 0.05). The incubation temperatures were not differed significantly (P > 0.05). This study showed the eel had a higher digestive capacity of protein at elver stadium, mainly occur in the anterior part of the intestine, whereas, the temperature ranges from 30 to $50\text{\AA}, \text{Å}^{\circ}\text{C}$ had no significant effect on the enzyme activities.
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