

## AKTIVITAS AMILASE, LIPASE DAN PROTEASE DARI CACING *Peryonix excavatus*

<b>Title</b>	AKTIVITAS AMILASE, LIPASE DAN PROTEASE DARI CACING <i>Peryonix excavatus</i>
<b>Author Order</b>	of
<b>Accreditation</b>	
<b>Abstract</b>	The ability of <i>Peryonix excavatus</i> to live in extremely dirty area indicates that <i>P. excavatus</i> secretes distinctive enzymes which might be useful for industry. Thus, this research were aimed to isolate amylase, lipase and protease from <i>P. excavatus</i> , and to characterize the enzymes to know the optimum temperature and pH. The isolation procedure consisted of extraction and ammonium sulphate fractionation. The results showed that crude extract and ammonium sulphate fractions of <i>P. excavatus</i> had amylase, lipase, and protease enzymes activities. Among the three enzymes, amylase had the highest enzymatic activity whereas lipase was the least. The optimum temperature of amylase, lipase and protease were 60, 40, and 60 °C, respectively. The optimum pH of amylase, lipase and protease were 7, 7, and 8, respectively.
<b>Publisher Name</b>	Universitas Jenderal Soedirman
<b>Publish Date</b>	2009-11-01
<b>Publish Year</b>	2009
<b>Doi</b>	DOI: 10.20884/1.jm.2009.4.2.69
<b>Citation</b>	
<b>Source</b>	Molekul
<b>Source Issue</b>	Vol 4, No 2 (2009)
<b>Source Page</b>	115-121
<b>Url</b>	<a href="https://ojs.jmolekul.com/ojs/index.php/jm/article/view/69">https://ojs.jmolekul.com/ojs/index.php/jm/article/view/69</a>
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