

AKTIVITAS DAN STABILITAS RADICAL SCAVENGING L-ASKORBIL PALMITAT HASIL SINTESIS SECARA ENZIMATIK

**[Activity and Stability of Radical Scavenging of L- Palmitate Synthesized
Enzymatically]**

Tri Agus Siswoyo, Tri Ardiyati

ABSTRACT

*L-ascorbyl palmitate (AsA-Pal-Enz) was synthesized by using an immobilized lipase from *Aspergillus niger*. A comparison of antioxidative effects between L-ascorbic acid (AsA) and AsA-Pal-Enz was determined in terms of 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical-scavenging. The results indicate that the AsA-Pal-Enz was effective in preventing lipid oxidation, while the antioxidative activity in authentic AsA-Pal was lower. The activity of AsA-Pal-Enz was very stable than AsA-Pal standard during heating.*

Key words : *Aspergillus niger, Lipase, Antioxidant, L-Ascorbic Acid, L-Ascorbyl Palmitate*