

Potential of Garlic Filtrates as Alternative Anticoagulants Against Hemostasis Screening

Rifqi Arif Muhtarom
P17334116408

ABSTRACT

Garlic contains many useful compounds, one of which is ajoene which is effective in stopping bleeding (hemostasis). The aim of this study was to determine the potential of garlic filtrate as an alternative anticoagulant for hemostasis screening. Garlic inhibits adenosine diphosphate (ADP), collagen, arachidonate, epinephrine, calcium ionophores and inhibits the formation of thromboxane, phospholipase and lipooxygenase that are formed in platelets. This shows that the inhibition process of garlic as an anticoagulant through Ca^{2+} ions, which inhibits the transport of Ca^{2+} into the cytoplasm, the platelet cells are inhibited by ajoene and other organosulfur compounds, so that the freezing process on platelets does not occur. This type of research is a literature study using other research data that discusses garlic on hemostasis screening. From the literature study, it can be concluded that garlic filtrate can be used as an alternative anticoagulant and there is an effect of garlic filtrate on hemostasis screening, including on BT, CT, thromocyte count, PT and aPTT parameters..

Kata kunci : *anticoagulant, garlic filtrate, screening hemostatis.*