

**ESSENTIAL OILS IN VIETNAMESE CORIANDER LEAVES  
(*Persicaria odorata*), TORCH GINGER FLOWER  
(*Etingera elatior*) AND GALANGAL  
(*Alpinia galangal*)**

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This Final Year Project report entitled “**Essential oil in Vietnamese coriander leaves (*Persicaria odorata*), Torch ginger flower (*Etilingera elatior*) and Galangal Rhizome (*Alpinia galangal*)**” was submitted by Muhammad Izwan Bin Anuar, in partial fulfilment of the Requirement for the Degree of Bachelor of Science (Hons.) Applied Chemistry in the Faculty of Applied Science, and was approved by



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## ABSTRACT

### ESSENTIAL OILS IN VIETNAMESE CORIANDER LEAVES (*Persicaria odorata*), TORCH GINGER FLOWER (*Etingera elatior*) AND GALANGAL (*Alpinia galangal*)

Essential oil plants and culinary herbs include a broad range of plant species that are used for their aromatic value as flavoring in food, beverage, fragrance in pharmaceutical and industrial products. Vietnamese coriander leaves (*Persicaria odorata*) has triacetyl-alpha-terpeniol (eucalyptol or linalool) (73.52%) is the main component of the essential oil in this herb. In torch ginger flower (*Etingera elatior*), its main component is 2-methyl-2-propenal diethylhydrazone (43.64%). While for the galangal (*Alpinia galanga*), the chemical constituents of this oil is cyclolongifolene oxide (31.72%). For this study, the essential oil of Vietnamese coriander leaves, torch ginger flower and galangal leaves were extracted by using hydrodistillation method and the components of essential oil in the herbs are determined by using gas chromatography-mass spectrometry.