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PUSPITA BUDHI ANGGRAENI

**VALIDASI METODE ANALISIS SENYAWA
POLIFENOL DALAM BUAH JAMBU BIJI DELIMA,
JAMBU BIJI MANIS DAN JAMBU BANGKOK
DENGAN METODE FOLIN CIOCALTEAU SECARA
SPEKTROFOTOMETRI UV-VIS**

MILIK
PERPUSTAKAAN
UNIVERSITAS AIRLANGGA
SURABAYA



**FAKULTAS FARMASI UNIVERSITAS AIRLANGGA
BAGIAN ILMU BAHAN ALAM
SURABAYA
2004**

Lembar Pengesahan

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**Dibuat Untuk Memenuhi Syarat Mencapai Gelar Sarjana Farmasi Pada
Fakultas Farmasi Universitas Airlangga
2004**

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ABSTRACT

METHOD VALIDATION FOR POLYPHENOL COMPOUND ANALYSIS IN RUBY GUAVA, SWEET GUAVA AND BANGKOK GUAVA WITH FOLIN CIOCALTEAU METHOD BY UV-VIS SPECTROPHOTOMETRY

The development of plant drug industry is expected to more directional to phytopharmaca dosage form. The requirements of that is same with modern drug which are safety, effective and efficacy. So it is necessary to determinate concentration of active compound from the plant drug. Before conducting determination, we must have a valid method which used. If the validation parameters which are linearity, LOD, LOQ, precision and accuracy have been fulfilled the requirement, the method is valid.

Psidium guajava L. is a plant which often use to antidiarrhea and antiinflammation. Empirical data also said that plant can be used to against dengue hemorrhoid fever, it is assumed because the polyphenol compound in fruit of that plant which has antivirus activity.

This research was done by validation method of analysis polyphenol compound in fruit of ruby guava, sweet guava, and Bangkok guava with folin ciocalteau method by spectrophotometry UV-Vis. The choosen of three kinds of *Psidium guajava* L. because they are often consumed by people.

The results was LOD = 0,08 ppm, LOQ = 0,25 ppm, the linearity show in regrestion equation $Y=0,12 X + 7,25 \cdot 10^{-3}$ with $r =0,9992$ and $V_{xo} =1,85\%$ and has been obtained precision values (KV) was 4,84%, 1,82% and 4,40%, accuration values (% recovery) was $(93,94 \pm 3,38)\%$, $(91,56 \pm 1,28)\%$, $(109,40 \pm 3,68)\%$ from (ruby guava fruit, sweet guava fruit, and Bangkok guava fruit), respectively.

Keywords : guava fruits, polyphenol, folin ciocalteau, UV-Vis Spectrophotometry