ISOLASI DAN UJI BIOLARVASIDA
SENYAWA FLAVONOID DARI KULIT BATANG
Saccopetalum horsfieldii Benn

SKRIPSI

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JURUSAN KIMIA
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
UNIVERSITAS AIRLANGGA
SURABAYA
2004
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Sebagai Salah Satu Syarat untuk Memperoleh Gelar Sarjana Sains
Bidang Kimia pada Fakultas Matematika dan Ilmu Pengetahuan Alam
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Tanggal Lulus : 3 Februari 2004

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ABSTRAK


Kata Kunci: Saccopetalum horsfieldii Benn, flavonoid, 5,3’-dihidroksi-3,7,4’-trimetoksi flavon, kuersetin 3,7,4’-trimetil etar, Aedes aegypti.
Nurul Fatimah, 2004, Isolation and Biolarvicide Assay of Flavonoid Compound from Stem Bark of *Saccopetalum horsfieldii* Benn. This final project conducted under guidance of Drs. Mulyadi Tanjung, MS. and Dr. Alfinda Novi K., Chemistry Departement of Mathematics and Natural Sciences Faculty of Airlangga University.

**ABSTRACT**

*Saccopetalum horsfieldii* Benn is one species belonged to *Annonaceae* which is found in Indonesia. This research aim is to isolate and identify flavonoid compound from stem bark of *Saccopetalum horsfieldii* Benn and conduct biolarvicide assay against to larva of *Aedes aegypti*. Extraction of flavonoid compound used ethyl acetate as solvent and separation was done by liquid vacuum chromatography and flash column methods. Purification by recrystalization which used n-hexana – acetone mixture yield lemon colored crystal with melting point 173-175 °C. The structure of this compound was determined by spectroscopics method such as UV-VIS, infra red and NMR. It was a flavonoid compound known as quercetin 3,7,4'-trimethyl ether or 5,3'-dihidroxy-3,7,4'-trimethoxy flavone. Biolarvicide assay against to larva of instar III *Aedes aegypti* yield LC$_{50}$ equal to 271,74 ppm.

Keywords: *Saccopetalum horsfieldii* Benn, flavonoid, 5,3'-dihidroxy-3,7,4'-trimethoxy flavone, quercetin 3,7,4'-trimethyl ether, *Aedes aegypti*