

**SKRIPSI**

**SULISTIARINI**

**OPTIMASI WAKTU REAKSI BENZOILASI  
ASAM 4-HIDROKSI SINAMAT MELALUI METODE  
SCHOTTEN BAUMANN**

FF 10/06  
Sul  
0



**FAKULTAS FARMASI UNIVERSITAS AIRLANGGA  
BAGIAN KIMIA FARMASI  
SURABAYA  
2005**

**MILIK  
PERPUSTAKAAN  
UNIVERSITAS AIRLANGGA  
SURABAYA**

**Lembar Pengesahan**

**OPTIMASI WAKTU REAKSI BENZOILASI  
ASAM 4-HIDROKSI SINAMAT MELALUI METODE  
SCHOTTEN BAUMANN**

**SKRIPSI**

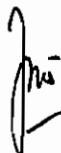
**Dibuat untuk memenuhi syarat mencapai gelar Sarjana Farmasi pada  
Fakultas Farmasi Universitas Airlangga  
2005**

**Oleh :**

**SULISTIARINI  
NIM : 050012272**

**Disetujui Oleh :**

**Pembimbing Utama**

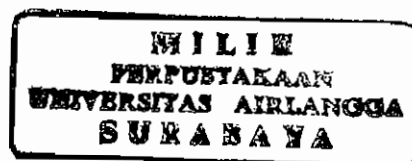


**Dra. Juni Ekowati, MSi  
NIP. 132009462**

**Pembimbing Serta**



**Drs. Heru Wibowo, MS.  
NIP. 130809083**



## ABSTRACT

The optimization of the reaction time on benzoilation of *p*-hydroxycinnamic acid had been carried out. The aim of this research was to optimize the reaction time on the percentage of 4-O-benzoyl cinnamic acid synthesized by Schotten-Baumann reaction. Experiments were carried out by reacting mixture of *p*-hydroxycinnamic acid and benzoyl chloride in 10% sodium hydroxide solution with different reaction time. The reaction were carried out for thirty minutes, two hours, four hours, and six hours gave 18,64%; 16,27 %; 15,34 % and 15,14% yield of 4-O-benzoyl cinnamic acid

Identification of the resulted compound was done by TLC test, FeCl<sub>3</sub> test, melting point test, UV-VIS, FT-IR spectrophotometry, <sup>1</sup>HNMR spectrometry. Identification showed that the resulted compound was 4-O-benzoyl cinnamic acid. Reacting for thirty minute gave the maximal result to produce 4-O-benzoyl cinnamic acid.

**Keyword** : Schotten-Baumann reaction, *p*-hydroxycinnamic acid, benzoyl chloride 10% sodium hydroxide solution, 4-O-benzoyl cinnamic acid.