



THESIS APPROVAL

GRADUATE SCHOOL, KASETSART UNIVERSITY

Master of Science (Chemistry)

DEGREE

Chemistry

FIELD

Chemistry

DEPARTMENT

TITLE: Crude Dyes Extracted from Plants and *Monascus* Rice Cultures as Sensitizers in Solid-State Dye-Sensitized Solar Cells

NAME: Miss Kwannapat Sorachoti

THIS THESIS HAS BEEN ACCEPTED BY

Marisa Arunchaiya

THESIS ADVISOR

(Miss Marisa Arunchaiya, Ph.D.)

Atchana Wongchaisuwat

COMMITTEE MEMBER

(Assistant Professor Atchana Wongchaisuwat, M.S.)

Pinsuda Virayathana

COMMITTEE MEMBER

(Miss Pinsuda Virayathana, Ph.D.)

Busaba Yongsmith

COMMITTEE MEMBER

(Professor Busaba Yongsmith, Ph.D.)

Noojaree Prasitpan

DEPARTMENT HEAD

(Assistant Professor Noojaree Prasitpan, Ph.D.)

APPROVED BY THE GRADUATE SCHOOL ON 05 JUNE 2006

Vinai Artkongharn

DEAN

(Associate Professor Vinai Artkongharn, M.A.)