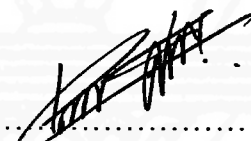



This Dissertation


Entitled


**HUMANIZED ANTIBODIES THAT NEUTRALIZE PERTUSSIS
TOXIN ACTIVITY**

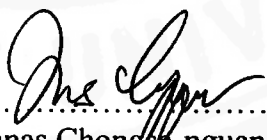
was submitted to the Faculty of Allied Health Sciences, Thammasat University, for
the Doctor of Philosophy (Biomedical Sciences) degree on 23 April 2007.

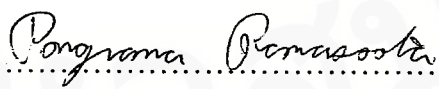
Signature..........Candidate
Anek Pootong, B.Sc.

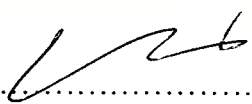
..........Advisor
Wanpen Chaicumpa, D. V. M. (Hons.), Ph. D.
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..........Co-advisor
Pramuan Tapchaisri, Ph. D.
Associate Professor

..........Co-advisor
Pongsri Tongtawe, Ph. D.
Assistant Professor

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Manas Chongsanguan, M.P.H., Ph. D.
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..........Co-advisor
Pongrama Ramasoota, D.V.M., Ph.D.
Assistant Professor

..........
Vithoon Viyanant, Ph. D.
Professor, Dean
Faculty of Allied Health Sciences
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**EVALUATION OF THE FINAL EXAMINATION
THE DEFENCE OF DISSERTATION**

We, the members of the Dissertation Defense Committee

for

ANEK POOTONG

Unanimously approve the dissertation entitled

**HUMANIZED ANTIBODIES THAT NEUTRALIZE PERTUSSIS
TOXIN ACTIVITY**

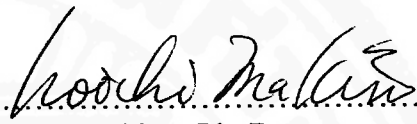
We further agree that he has satisfactorily
defended his dissertation at the examination given


on 23 April 2007


We recommend therefore that


ANEK POOTONG

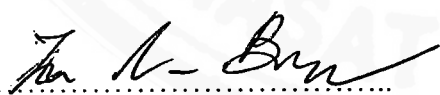
be awarded the degree of Doctor of Philosophy (Biomedical Sciences) from the Faculty of Allied Health Sciences, Thammasat University.

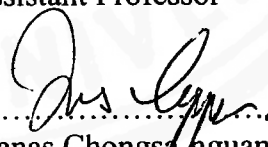
Signature Chair
Sou-ichi Makino, Ph. D.
Professor

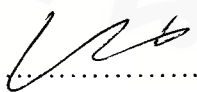
..... Member
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Pramuan Tapchaisri, Ph. D.
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