

UNDERGRADUATE THESIS

**EXPLORATION OF THE SYNTHESIS OF N-HETEROCYCLES FROM
CYCLOHEXANONE DIMER USING 4-DIMETHYLAMINOPYRIDINE
AS CATALYST**

**EKSPLORASI SINTESIS SENYAWA N-HETEROSIKLUS DARI
CYCLOHEXANONE DIMER MENGGUNAKAN 4-
DIMETHYLAMINOPYRIDINE SEBAGAI KATALIS**



Ananda Salman Alfarezi
21/472913/PA/20359

**INTERNATIONAL UNDERGRADUATE PROGRAM OF CHEMISTRY
CHEMISTRY DEPARTMENT
FACULTY OF MATHEMATICS AND NATURAL SCIENCE
UNIVERSITAS GADJAH MADA
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Submitted to fulfil one of the requirements for obtaining a Bachelor of Science in
Chemistry



Ananda Salman Alfarezi
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RATIFICATION PAGE

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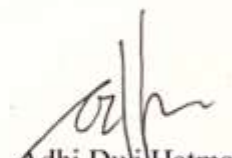
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Mengetahui,
a.n. Dekan FMIPA UGM
Wakil Dekan Bidang Pendidikan, Pengajaran
dan Kemahasiswaan

