



THE UNITED GRADUATE SCHOOL OF AGRICULTURAL SCIENCES

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September 18, 2000

CERTIFICATION OF COMPLETION
OF DOCTORAL DEGREE

This is to certify that:

Name: Ahmed Zakaria

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has completed the Doctoral Course at the United Graduate School of Agricultural Sciences, Ehime University and had been conferred the degree Doctor of Philosophy.

Title of thesis submitted:

PRODUCTION OF VARIOUS RARE ALDO-PENTOSEs BY MICROBIAL
AND ENZYMATIC METHODS FROM D-GLUCOSE

Academic Advisor: Professor Ken Izumori



Official Seal

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