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Effects of different water temperature treatment and packaging materials on tomatoes (*Lycopersicum esculentum*) stored in ambient temperature / Liyana Mat Lias.

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**EFFECTS OF DIFFERENT WATER TEMPERATURE TREATMENT AND
PACKAGING MATERIALS ON TOMATOES (*Lycopersicum esculentum*) STORED
IN AMBIENT TEMPERATURE.**

**By
Liyana Binti Mat Lias**

**Research Report submitted in partial fulfillment of
the requirements for the degree of
Bachelor of Agrotechnology Science (Post Harvest Technology)**

**Department of Agrotechnology
FACULTY OF AGROTECHNOLOGY AND FOOD SCIENCE
UNIVERSITI MALAYSIA TERENGGANU
2008**



**FAKULTI AGROTEKNOLOGI DAN SAINS MAKANAN
UNIVERSITI MALAYSIA TERENGGANU**

**PENGAKUAN DAN PENGESAHAN LAPORAN
PROJEK ILMIAH I DAN II**

Adalah ini diakui dan disahkan bahawa laporan ilmiah bertajuk:

EFFECTS OF DIFFERENT WATER TEMPERATURE TREATMENT AND
PACKAGING MATERIALS ON TOMATDES (Lycopersicon esculentum) STORED
IN AMBIENT TEMPERATURE.

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diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini
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DECLARATION

I hereby declare that the work in this thesis is my own except for quotations and summaries which have been duly acknowledged.

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ABSTRACT

This study was conducted at Laboratory of Postharvest Technology, Faculty of Agrotechnology and Food Science, Universiti Malaysia Terengganu. Tomatoes (*Lycopersicon esculentum*) fruit at stage 4 was divided into three groups to treat with different water temperature and also packed in different packaging materials. One group was treated with water at temperature 40°C while another group was treated with water at ambient temperature (28°). Another group was for control. Then each group was divided into three sub-groups for different packaging materials. Packaging materials used are polypropylene plastic bag, shrink wrap and no packaging. Then all the samples were left in room temperature (28°C). The result was taken at 2 days interval. Results showed that the best treatment for tomatoes stored in ambient temperature was tomatoes treated with water at 40°C and packed in polypropylene bag. The result obtained was not supported by analytical analysis because the overall result obtained was not significant, ($p>0.05$).