



TEST REPORT

Report No. : AG027693-002

Date : 2006 November 03

Application No.: LG222681

Applicant : G & H INDUSTRIAL LTD.
RM. B, 16/F., LEVER CENTRE,
69-71 KING YIP ST., KWUN TONG,
KOWLOON, HONG KONG

Test Requested : 1. On-site inspection for Shelf Life by observation of the appearance of the food products
2. Safety Test – On-site Ozone concentration measurement

Test Procedure and Method :

1. On-site inspection for Shelf Life by observation of the appearance of the food products

Identical lots of food products, including strawberries, celery stalks, whole tomatoes, bananas and cut melon were stored in two 356L (12.57 cubic feet) refrigerators and evaluated periodically. One refrigerator served as the untreated control refrigerator; the other is the test refrigerator, treated with a Refrigerator Air Purifier (Model name: IONCARE Refrigerator Air Purifier; GH2138/Genius Air Max or GH2127/Genius Air 1) by placed at the bottom of the refrigerator. The Air purifier was operated automatically for first 30 minutes and cycles on for about 1 minute every hours or so. The determination of shelf life is based on the comparison of the food products appearance, the appearances were examined daily and recorded by taking photos of the food products.

2. Safety Test – On-site Ozone concentration measurement

The safety test of the Air Purifier was evaluated by measuring the ozone levels in air of the doorway when the refrigerator door was opened. Air samples were taken immediately after opening the refrigerator door, at 5-½ foot level (typical adult female height) and 3-foot level (child height). Ozone in air was measured with an ECO Sensor Model A-212X, sensitive to ozone levels from 0 to 10 PPM.

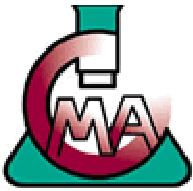
For and on behalf of
CMA Industrial Development Foundation Limited

Authorized Signature : _____

Lee Hoi Yung

Manager - Environmental Division

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Test Period : 2006 October 4 - 2006 October 27.

Test results :

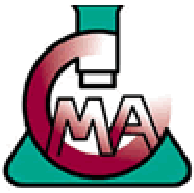
1. On-site inspection for Shelf Life by observation of the appearance of the food products

Photographic comparison

Picture No. 1

Test Refrigerator fully stocked with Air Purifier at start of study (left). The Control Refrigerator was stocked in the same manner, without the Air Purifier (right).





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Picture No. 2

Banana, 7 days, without Air Purifier (upper), with Air Purifier (lower)

Observation: The original color of peeled bananas lost without Air Purifier



Picture No. 3

Celery stalk, 7 days, with Air Purifier (upper), without Air Purifier (lower)

Observation: Texture & appearance was kept with Air Purifier.





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Picture No. 4

Strawberries, 14 days, with Air Purifier (left), without Air Purifier (right)

Observation: Molding was prominent in the control berries, while the Ozone treated berries still looked fresh and wholesome after storage for 14 Days

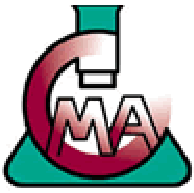


Picture No. 5

Tomato, 14 days, with Air Purifier (left), without Air Purifier (right)

Observation: Whole tomatoes held up well for 14 days without and with Ozone.
Texture was slightly firmer in Tomatoes stored with Ozone





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Picture No. 6

Netcane, 14 days, with Air Purifier (left), without Air Purifier (right)

Observation: Texture and original fruit color was lost without Air Purifier



Picture No. 7

Cut Cantaloupe, 7 days, without Air Purifier (left), with Air Purifier (right)

Observation: Lost of Fruit Texture without Air Purifier





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Picture No. 8

Grapefruit, 14 days, with Air Purifier (left), without Air Purifier (right)

Observation: Showed no significant peel color difference with or without Air Purifier, but texture was lost without Air Purifier



2. Safety Test – On-site Ozone concentration measurement

Measurement level	Ozone level (ppm)
5-½ foot level	0.02
3-foot level	0.02

Occupational Safety & Health Administration - Short-Term Exposure Limit (15mins) is 0.3ppm

Notes:

1. ppm denotes part per million.
2. The testing procedures and conditions are suggested and confirmed by the applicant.