

TEST REPORT

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Receipt No.: 981111-101000-003

Testing Event: Assessment of Cytotoxicity

Testing Type: Entrusted by client

Name of Sample: *Rhodobacter sphaeroide*-produced lycopene-like

Sampling Method: Sampling from client

Client: Asia-Pacific Biotech Developing, Inc.

Date of Sampling: (Y)2009 (M) 11 (D) 6

Date of Testing: (Y)2009 (M) 11 (D) 7 ~ (Y) 2009 (M) 11 (D) 18

Date of Issue: (Y) 2009 (M) 11 (D) 23

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Assessment of Cytotoxicity

Rhodobacter sphaeroide-produced Lycopene-like had only weak effects on cell cytotoxicity in Hs68 cells. It was almost no cytotoxicity by treatment with Lycopene-like less than 10 μ M in Hs68 cells. However, lycopene-like significantly increased cell cytotoxicity at 20 μ M, and the effect was equivalent to that of 0.1 μ M lycopene.

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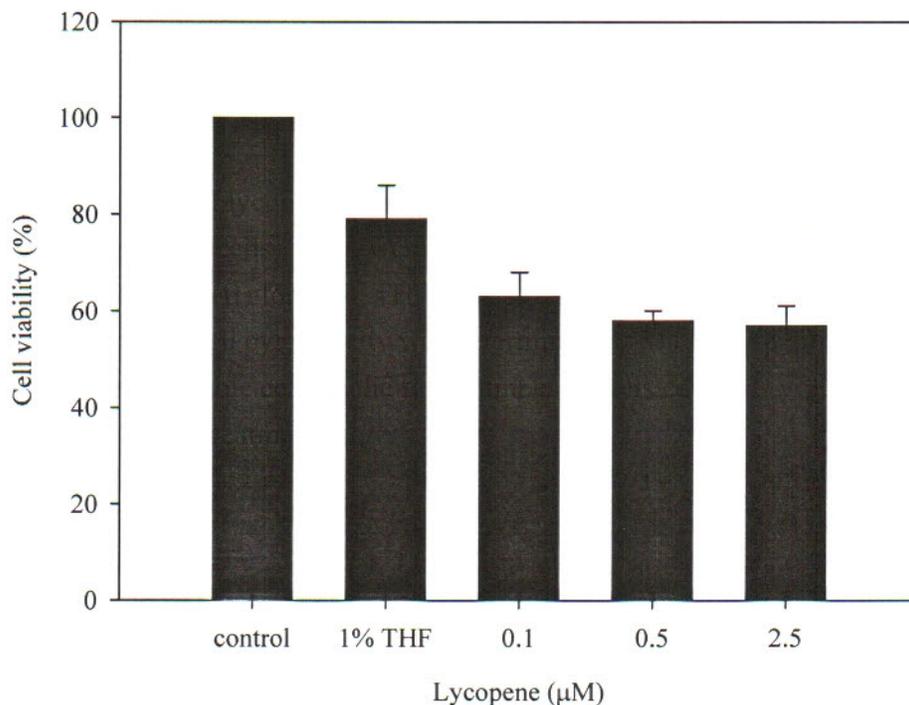
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Results of Testing

Figure. Effects of lycopene and lycopene-like on cell cytotoxicity in Hs68 cells (human fibroblast cells). Cells were treated with different concentrations of lycopene (A) or lycopene-like (B) for 24 h. THF (1%) served as solvent control for lycopene and lycopene-like. Cell cytotoxicity was determined by MTT and expressed as a percentage of viable cells in the total number of cells counted. Values are means \pm SD ($n \geq 3$) for each treatment.

(A)



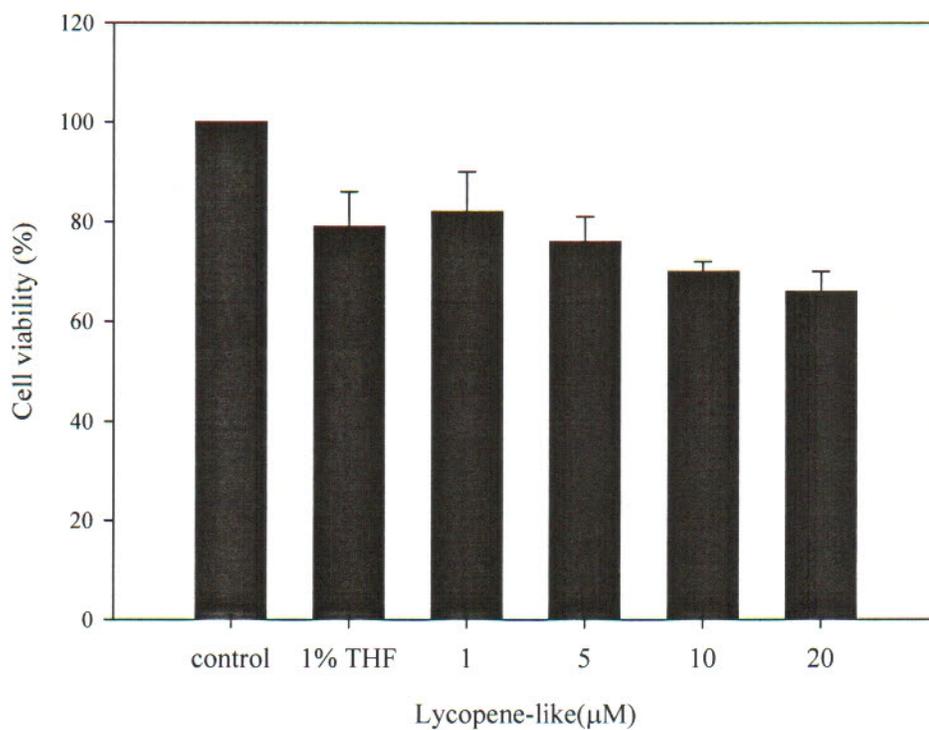
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Results of Testing

(B)



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Explanation of Testing

1. This test report shall not be allowed to alter, increase, diminish or delete.
2. Results of this test report only relate to the items tested.
3. This test report shall not be allowed to advertise or publish in any commercial purpose without agreement.
4. This test report shall not be allowed to copy wholly or partly without agreement.
5. Lab. of the testing place:
Lab. of Integumentary Physiology & Biochemistry, Q808 in laboratory building Q,
Chia-Nan University of Pharmacy & Science
60, Erh-Jen RD., Sec.1, Jen-Te, Tainan, Taiwan

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