



**CMA Testing  
and Certification  
Laboratories**

廠商會檢定中心

**TEST REPORT**

Report No. : AS0042413(3)

Date : 22 Jul 2014

Application No. : LS007868(7)

Applicant : TOP FINE (HK) INDUSTRIAL COMPANY LTD.  
UNIT 2-3, 17/F, BLOCK B,  
WAH TAT INDUSTRIAL CENTRE,  
NO.8, WAH SING STREET,  
KWAI CHUNG, N.T.,  
HONG KONG

Project Name : Biodegradability test

Sample Description : Corn Starch Cutley

Date Received : 12 Mar 2014.

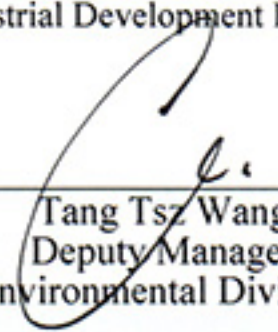
Lab Test Period : 15 May 2014 to 30 Jun 2014.

Test Requested : Biodegradability test reference to ASTM D5338, HS2001.

Test Result : Refer to the results on pages 2-3.

*For and on behalf of*  
CMA Industrial Development Foundation Limited

Authorized Signature : \_\_\_\_\_

  
Tang Tsz Wang  
Deputy Manager  
Environmental Division

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### Test Result :

Test material: Corn Starch Cutley

Positive Reference material: TLC grade cellulose

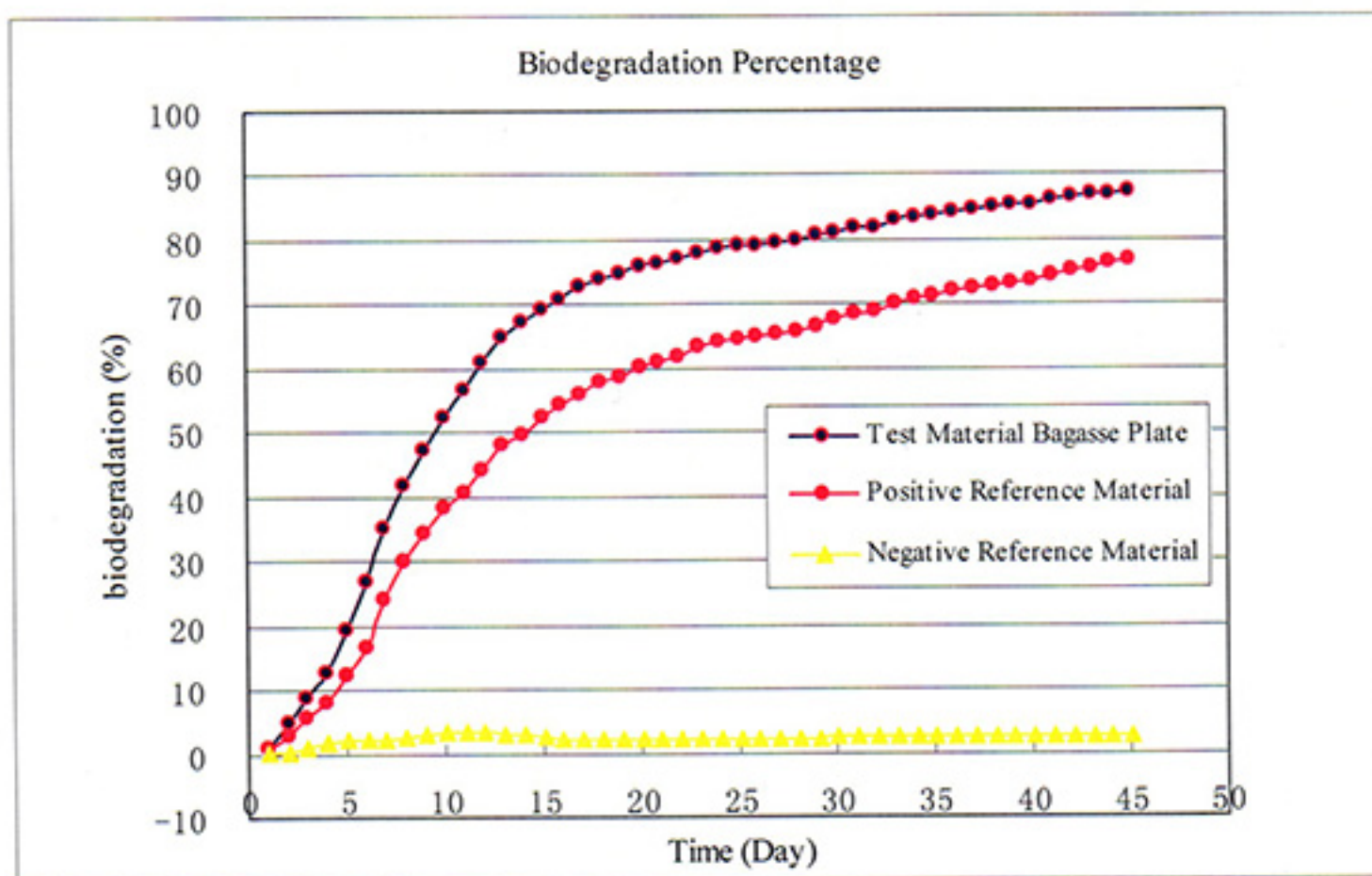
Age of compost: Three months

Negative Reference material: Polyethylene

Volume of test vessels: 2.5 L

Method of CO<sub>2</sub> determination: Titration

	Mean biodegradation calculated from CO <sub>2</sub> evolved %	Test duration days	Visual observations at the end of test
Test material	87.6	45	The remaining test materials were loose, fragile and not distinguished from the compost mixture naked eye
Positive Reference material	76.9	45	The remaining reference material was not distinguished from the compost mixture naked eye
Negative Reference material	2.7	45	The remaining reference material was unchanged





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### Validity criteria

Degree of biodegradation of reference material (cellulose) after 45 days >70 %?  Yes  No

Difference between percentage biodegradation of reference material in the different vessels at end of test <20 %?  Yes  No

Mean CO<sub>2</sub> production in the blank vessels after 10 days in the range 50 mg to 150 mg CO<sub>2</sub>/g volatile solids?  Yes  No

Item	TOC (%)
Test material	58.6
Positive Reference material	42.5
Negative Reference material	98.7

### Characterization of inoculum (compost)

Item	Test results	Unit
Total dry solids	94.1	%
Volatile solids (VSS)	20.5	%
pH	7.6	-
Total nitrogen content (TKN)	0.56	dry weight (%)

“-” = Not regulated



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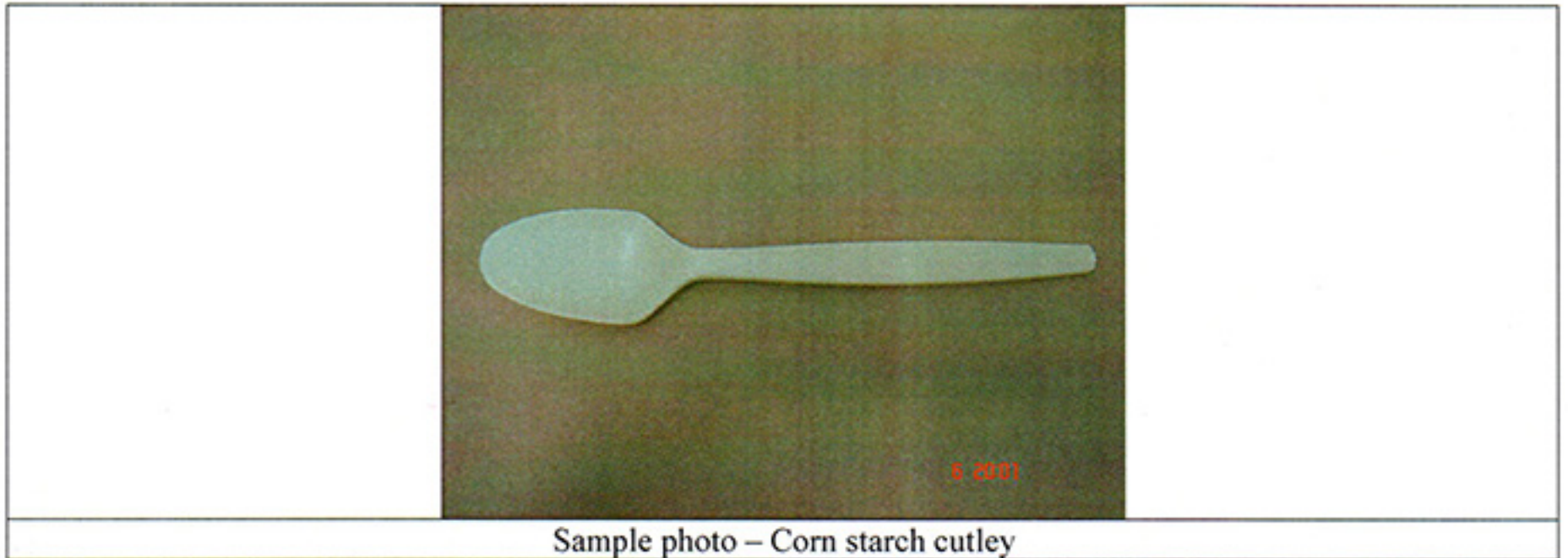
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### Appendix I



Sample photo – Corn starch cutley

\*\*\*\*\* End of Report \*\*\*\*\*