



**Report For:** Degradable Plastic Additives  
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**Laboratory #:** 490342B-08  
**Report Date:** October 30, 2008  
**Received Date:** August 22, 2008

**Attention:** Graham Chapman

**RE: MIGRATION AND STABILITY TESTING OF THIN PLASTIC SHEETING IN ACCORDANCE WITH CANADIAN FOOD INSPECTION AGENCY INSTRUCTIONS AND DEGRADABLE PLASTIC ADDITIVES**

EXECUTIVE SUMMARY

On August 22, 2008, CMTL received a request to test two thin plastic sheeting samples for migration and stability testing in accordance with instructions from the Canadian Food Inspection Agency (CFIA) and Degradable Plastic Additives.

For migration testing the samples were immersed in identical solutions of ethyl alcohol and water (1:1) for a period of 28 days at 30°C. Following the exposure both sheeting samples were removed and the solutions analyzed by an Inductively Coupled Argon Plasma (ICAP) Spectrometer for presence and relative concentrations of Iron, Manganese and Copper.

For stability testing the samples were cut, folded and sealed to create "milk pouches". The pouches were filled with solutions of ethyl alcohol and water (1:1) and exposed outside in Mississauga and within an environmental chamber at 30°C. Every seven (7) days of exposure one pouch from each sample was removed, dispensed of solution and cut into test specimens for measurements of ultimate tensile strength and ultimate elongation.

Based upon the results of testing it was found that NO migration of metals had occurred and that the stability of the thin plastic sheeting samples was GOOD after 28 days of exposure to the ethyl alcohol and water solution.

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Per *Andrew Brown* QUALITY ASSURANCE  
Per *Derek Wild* TECHNICIAN