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CHIPPING CAMPDEN, GLOS.,GL55 6LD UK**

**Evaluation of Packaging Material**

Confidential to : Evesham Specialist Packaging (ESP)  
Unit D  
Northway Trading Estate  
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Commissioned by: Richard Knight

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By:

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## **Introduction**

Three different types of tray were sent to Campden and Chorleywood Food Research Association for Trace metals and Global Migration (acetic acid) to ensure they did not exceed the overall limits.

The three different trays were labeled as:

- Black paper pulp tray IS/105653/00001
- Corrugated pulp 2 compartments IS/105653/00002
- Corrugated pulp tray IS/105635/00003

## **Method**

The trays were tested for Trace metals using methods:

TES-AC-686 for cadmium, chromium and lead

TES-AC-206 for mercury

The trays were tested for global migration using method:

TES-AC-501 (in house method based upon the European Standard BS EN 1186:2002) using acetic acid as the simulant

## **Results**

A full copy of the trace metals results can be found in Appendix I.

**Table 1: Trace metal**

<b>Tray type</b>	<b>Cadmium mg/kg</b>	<b>Chromium mg/kg</b>	<b>Lead mg/kg</b>	<b>Mercury mg/kg</b>
IS/105653/00001	0.01	0.9	0.39	0.02
IS/105653/00002	0.06	3.4	3.5	0.03
IS/105635/00003	0.11	4.2	5.4	0.03

A full copy of the global migration results can be found in Appendix II.

**Table 2: Global Migration**

Tray type	1	2	3	4	average
IS/105653/00001	0.75	0.85	1.15	0.85	0.9mg/dm <sup>2</sup>
IS/105653/00002	1.45	1.60	0.60	1.65	1.3mg/dm <sup>2</sup>
IS/105635/00003	0.75	0.65	1.05	0.55	0.8mg/dm <sup>2</sup>

### **Discussion**

The Packaging Essential Requirements state that the sum of the concentration levels of regulated metals within the packaging material or any of its components should not exceeds 100 ppm. The trace metal results indicate that the three different types of packaging supplied are all within these limits.

The overall limit for global migration is 10mg/dm<sup>2</sup>. The results indicate that the three different types of packaging materials supplied were all within these limits.

# **APPENDIX I**

(Trace metals report)

## **APPENDIX II**

(Global migration report)