

Campden BRI Group:

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Registered Office:

Station Road ♦ Chipping Campden ♦ Gloucestershire ♦ GL55 6LD ♦ UK



Confidential report for: The Drinking Straw Company

FAO: George Fletcher
Riverside Works
Brighton Street
ShIPLEY
West Yorks
BD17 7EB

Report on:

Overall migration from food contact materials

Report number: AC/REP/141851/62 ♦ Issue date: 24th May 2017

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Our ref: 62 drinking straw company
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SAMPLE INFORMATION

Company : The Drinking Straw Company
Product description : Small red drinking straw
Campden reference : AC/141851/62
Date received : 12th May 2017
Condition : Free from any apparent or obvious physical defects
Storage : Ambient
Date of analysis : 12th May – 24th May 2017
Test data : CAW/B3P14-15

METHODS AND REFERENCES

Testing programs for overall migration are devised in accordance with the BS EN ISO 1186 series of standards and Commission Regulation No. 10/2011 as amended.

Methods used for this work and accredited by UKAS are listed in the Schedule of Accreditation, a copy of which is available from: <http://www.campden.co.uk/campdenbri/qualityofservice.php>

Method TES-AC-500 is based on BS EN 1186:2002 parts 2, 4, 6, 8.

Global (overall) migration from packaging materials into olive oil food simulants by total immersion, single side contact by cell technique, single side contact by pouch technique and by article filling technique.

Method TES-AC-501 is based on BS EN 1186:2002 parts 3, 5, 7, 9 and 14.

Global (overall) migration from packaging materials into aqueous food simulants and substitute fatty food simulants by total immersion, single side contact by cell technique, single side contact by pouch technique and by article filling technique.

Four test specimens are used in each overall migration test performed with food stimulants to ensure that a minimum of three valid test results are obtained.

Sunflower oil is used as an alternative to rectified olive oil - "reference stimulant D". The sunflower oil used has characteristics in accordance with those specified in Annex A of BS EN 1186-1:2002.

CALCULATION OF RESULTS

Where a test result for a replicate is found to be less than the limit of detection the calculated numerical value, *M* (as defined in clause 3.6.1 of BS EN 1186-3:2002 for aqueous testing and clause 8.1 in BS EN 1186-2:2002 for olive oil testing) and not the limit of detection is used for that replicate for the purpose of calculating the mean overall migration result. Where the calculated numerical value is negative, a value of zero is used for purposes of calculating the mean.

Concerning overall migration into oil, unless this report includes an explicit statement to the contrary, reduction factors are not taken into account when reporting the results.

Concerning specific migration results, in accordance with commission regulation 10/2011 the specific gravity of all simulants conventionally is assumed to be '1'. 1kg of food simulant therefore is taken to occupy the volume of 1L. The SML is set with the assumption that 6.0dm² of surface area comes into contact with 1kg of food. Results are adjusted for 6.0dm²/kg.

OVERALL MIGRATION: TEST CONDITIONS & RESULTS

Method : TES-AC-501 (UKAS accredited)
Contact time/temp : 2 hours @ 70°C
Overall migration limit : 10 mg/dm²

Simulant	Test results mg/dm ²				Mean test result mg/dm ²	Technique	Contact area
3%(w/v) Acetic Acid in an aqueous solution	0.94	1.56	1.35	0.94	1.2	Total Immersion	0.96dm ²
20%(v/v) Ethanol in an aqueous solution	1.04	<0.10	0.73	0.10	0.5	Total Immersion	0.96dm ²

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