

Alpiplast KG
J. Kravogl Str 10
Gewerbegebiet Töll
39020 Partschins (BZ)
ITALY

Eurofins Product Testing A/S
Smedskovvej 38
8464 Galten
Denmark

CustomerSupport@eurofins.dk
www.eurofins.com

Migration Report

28 October 2021

1 Sample Information

Sample name	Drinking straw BioBambu
Sample reception	13/08/2021
Sample no.	392-2021-00403104
Analysis period	25/08/2021 - 22/09/2021 & 13/10/2021 – 28/10/2021

2 Brief Evaluation of the Results

Type of analysis	Conclusion	Regulation or protocol
Overall migration	Pass	(EU) No 10/2011

Full details based on the testing and direct comparison with limit values are available in the following pages



Catja Foged Wittrup
Analytical Chemist



Brian Jensen
MSc. Chemistry

3 Applied Test Methods

3.1 General Test References

Method	Parameter	Analysis principle	LOD	Um(%)
NMKL 86 ¹	Aerobic Plate Count 30°C	E-Cultural technique (non-chromogenic media)	10 cfu/g	-
NMKL 98 ¹	Yeasts & Moulds	E-Cultural technique (non-chromogenic media)	10 cfu/g	-
EN 1186-3:2002	Preparation for migration	Exposure to 3% acetic acid by total immersion	-	-
EN 1186-1:2002	Overall migration into 3% acetic acid	Gravimetry	1 mg/dm ²	20%
EN 1186-3:2002	Preparation for migration	Exposure to 50% ethanol by total immersion	-	-
EN 1186-1:2002	Overall migration into 50% ethanol	Gravimetry	1 mg/dm ²	20%
EN 1186-3:2002	Preparation for migration	Exposure to demineralised water by total immersion	-	-
EN 1186-1:2002	Overall migration into water	Gravimetry	1 mg/dm ²	20%
EN 1186-2:2002	Preparation for migration	Exposure to olive oil by total immersion	-	-
EN 1186-1:2002	Overall migration into olive oil	Gravimetry	2 mg/dm ²	30%

3.2 Test Conditions

Simulant	Technique	Area exposed	Volume (Simulant)	Migration Conditions
		[dm ²]	[mL]	
Demineralised water	Immersion	2.1	100	1 Hours at 70°C
Demineralised water	Immersion	2.1	100	24 Hours at 40°C
3% acetic acid	Immersion	2.1	100	1 Hours at 40°C
50% ethanol	Immersion	2.1	100	1 Hours at 40°C
Olive oil	Immersion	2.0	100	24 Hours at 40°C

¹ Eurofins Steins Laboratorium A/S : DS EN ISO/IEC 17025 DANAK 222

*: Not accredited

<: Less than

>: Greater than

LOD: Limit of detection

Um(%): The expanded uncertainty Um(%) equals 2 x RSD%. For further information please visit www.eurofins.dk/uncertainty

The results are only valid for the tested sample(s).

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4 Results

4.1 Overall migration

Simulant	Single determinations			Average	OML value
	[mg/dm ²]	[mg/dm ²]	[mg/dm ²]		
3% acetic acid	5.5	4.7	5.7	5.3	10
50% ethanol	4.4	4.0	4.3	4.3	10
Demineralised water – 1 hour at 70°C	5.4	4.6	4.9	5.0	10
Demineralised water – 24 hours at 40°C	5.6	5.9	5.9	5.8	10
Olive oil	4.5	4.0	4.5	4.3	10

4.2 Microbial Analysis

Parameter	Result
	[cfu/g]
Aerobic Plate Count 30°C	< 10
Yeasts & Moulds	< 10

5 Summary and Evaluation of the Results

The results for overall migration **are below** the threshold value of 10 mg/dm².

Consequently, the product tested **complies** with the requirements in Commission Regulation (EU) No 10/2011 with amendments up to and including Commission Regulation (EU) 2020/1245 on plastic materials and articles intended to come into contact with food for the above mentioned test conditions.

5.1 Decision Rules

Eurofins Product Testing A/S, declare statement of conformity based on the “Binary Statement for Simple Acceptance Rule” described in ILAC’s “Guidelines on decision Rules and Statements of Conformity” ILAC-G8:09/2019.

This means that results above the detection limit are always reported with two significant digits. Results are evaluated with the same number of significant digits as the corresponding limit values, and conformity is based on results being less than or equal to limit values.

For further information please visit www.eurofins.dk/product-testing/om-os/beslutningsregler/

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⌘: Internal test method

n.d: Not detected

n.m: Not measurable

LOQ: Limit of quantification

6 Picture of Sample



7 Version History

Report date	Report number	Modification
23/09/2021	392-2021-00403104_MP_EN	No longer valid
28/10/2021	392-2021-00403104_Rev1_MP_EN	Current version. Selected tests repeated at less harsh migration conditions as per client request

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