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Migration Report

23 September 2021

1 Sample Information

| | |
|------------------|------------------------------|
| Sample name | Drinking straw PP all colors |
| Sample reception | 13/08/2021 |
| Sample no. | 392-2021-00403102 |
| Analysis period | 25/08/2021 - 22/09/2021 |

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



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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] | |
| 3% acetic acid | Immersion | 1.95 | 100 | 24 Hours at 40°C |
| 50% ethanol | Immersion | 1.95 | 100 | 24 Hours at 40°C |
| Demineralised water | Immersion | 1.95 | 100 | 24 Hours at 40°C |
| Olive oil | Immersion | 1.95 | 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 | < 1 | < 1 | < 1 | < 1 | 10 |
| 50% ethanol | < 1 | < 1 | < 1 | < 1 | 10 |
| Demineralised water | < 1 | < 1 | < 1 | < 1 | 10 |
| Olive oil | < 2 | < 2 | < 2 | < 2 | 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 | 392-2021-00403102_MP_EN | Current version |

*: Not accredited

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>: Greater than

LOD: Limit of detection

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