



# HAMILTON

**FOSFA**  
INTERNATIONAL



AB 079

## TEST REPORT NO 19867/25/POZ

|                                                                                                  |            |                                                                                                                                                                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Client<br><b>BUXI SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ</b><br>ul. Książęca 1<br>61-361 Poznań |            | Sample (according to declaration of Client)<br>Sample description:<br>• Product name/type: Glass drinking straws<br><br>• Type of material: lead-free soda-lime glass<br><br>• Print/color: (optional) not applicable<br>Batch: 25 szt.<br>Production date: 13.01.2025 |  |
| Sample reception date:                                                                           | 14.01.2025 | Sample status: no objections                                                                                                                                                                                                                                           |  |
| Start of analysis                                                                                | 14.01.2025 |                                                                                                                                                                                                                                                                        |  |
| End of analysis                                                                                  | 24.01.2025 |                                                                                                                                                                                                                                                                        |  |
| Test report date                                                                                 | 24.01.2025 |                                                                                                                                                                                                                                                                        |  |
|                                                                                                  |            | Sample received from the Client                                                                                                                                                                                                                                        |  |

| Test Method                                                                                                                                                          | Food simulant | Test conditions  | Unit                  | Result                                                             | Criteria | Statement of conformity |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-----------------------|--------------------------------------------------------------------|----------|-------------------------|
| * Migration of lead and cadmium from silicate surfaces of products other than ceramics <sup>1) 3)</sup><br>PN-EN 1388-2:2000, PB-204 ed. 7 of 20.07.2023             |               |                  |                       |                                                                    |          |                         |
| Cadmium (Cd)                                                                                                                                                         | 4% AA         | 24 h/ 22°C ± 2°C | mg/dm <sup>2</sup>    | < 0,008 (0,008 ± 0,002)<br>(< 0,008; < 0,008; < 0,008;<br>< 0,008) | ≤ 0,07   | Pass                    |
| Lead (Pb)                                                                                                                                                            | 4% AA         | 24 h/ 22°C ± 2°C | mg/dm <sup>2</sup>    | < 0,019 (0,019 ± 0,004)<br>(< 0,019; < 0,019; < 0,019;<br>< 0,019) | ≤ 0,8    | Pass                    |
| * Sensory analysis - scoring method (6 assessors) <sup>2)</sup><br>DIN 10955:2024                                                                                    |               |                  |                       |                                                                    |          |                         |
| Odour                                                                                                                                                                | water         | 1 d/ 40°C        | -                     | 0,0                                                                | -        | -                       |
| Flavour                                                                                                                                                              | water         | 1 d/ 40°C        | -                     | 0,0                                                                | -        | -                       |
| * Aerobic colony count at 30°C<br>PN-EN ISO 4833-1:2013-12; PN-EN ISO 4833-1:2013-12/A1:2022-06                                                                      | -             | -                | cfu/tested surface    | <1,0x10 <sup>1</sup>                                               | -        | -                       |
| * Number of yeasts and moulds at 25°C<br>PN-ISO 7954:1999 (withdrawn)                                                                                                |               |                  |                       |                                                                    |          |                         |
| Number of yeasts                                                                                                                                                     | -             | -                | cfu/tested surface    | <1,0x10 <sup>1</sup>                                               | -        | -                       |
| Number of moulds                                                                                                                                                     | -             | -                | cfu/tested surface    | <1,0x10 <sup>1</sup>                                               | -        | -                       |
| Number of yeasts and moulds                                                                                                                                          | -             | -                | cfu/tested surface    | <1,0x10 <sup>1</sup>                                               | -        | -                       |
| * Number of coliforms at 37°C<br>PN-ISO 4832:2007                                                                                                                    | -             | -                | cfu/tested surface    | <1,0x10 <sup>1</sup>                                               | -        | -                       |
| * Number of Enterobacteriaceae at 37°C<br>PN-EN ISO 21528-2:2017-08                                                                                                  | -             | -                | cfu/tested surface    | <1,0x10 <sup>1</sup>                                               | -        | -                       |
| Presence of coagulase-positive staphylococci (Staphylococcus aureus and other species) on the tested surface<br>PN-EN ISO 6888-3:2004; PN-EN ISO 6888-3:2004/AC:2005 | -             | -                | on the tested surface | Not detected                                                       | -        | -                       |
| * Presence of Salmonella spp. on the tested surface<br>PN-EN ISO 6579-1:2017-04; PN-EN ISO 6579-1:2017-04/A1:2020-09                                                 | -             | -                | on the tested surface | Not detected                                                       | -        | -                       |



## TEST REPORT NO 19867/25/POZ

|                                                                                                |   |   |                       |              |   |   |
|------------------------------------------------------------------------------------------------|---|---|-----------------------|--------------|---|---|
| * Presence of <i>Listeria monocytogenes</i> on the tested surface<br>PN-EN ISO 11290-1:2017-07 | - | - | on the tested surface | Not detected | - | - |
|------------------------------------------------------------------------------------------------|---|---|-----------------------|--------------|---|---|

- 1) The result does not exceed the limit specified for ceramic products (cadmium:  $\leq 0.07$  mg/dm<sup>2</sup>; lead:  $\leq 0.8$  mg/dm<sup>2</sup>) given in Directive 2005/31/EC of 29 April 2005 amending Council Directive 84/500/EEC as regards the declaration of conformity and the criteria for the effectiveness of the analysis method for ceramic products intended to come into contact with foodstuffs.
- 2) The scale used for the odour/flavour assessment:  
0 - no noticeable deviation of the odour /flavour,  
1 - barely noticeable deviation of the odour /flavour (hard to define yet),  
2 - weak deviation of the odour /flavour,  
3 - significant deviation of the odour /flavour,  
4 - strong deviation of the odour /flavour (this intensity does not determine the probable maximum).
- 3) The lower limit of the measuring range of the accredited method, which is also the limit of quantification set by the Laboratory.

## Authorized by:

ID: 106, Analysis Expert, Microbiology Laboratory

ID: 383, Analysis Expert, Sensory Analysis Laboratory

ID: 1409, Senior Analysis Specialist, Non-Food and Packaging Laboratory

The test report bears the certified electronic seal of J.S. Hamilton Poland Sp. z o.o.

## Laboratory address:

Chwaszczyńska 180, 81-571 Gdynia

The results refer only to the samples received. When a measurement uncertainty is given, it is an expanded uncertainty estimated for a coverage factor  $k=2$  at 95% confidence level and is not including sampling uncertainty, unless otherwise stated. When the conformity is stated J.S. Hamilton Poland Sp. z o.o. applies the simple acceptance decision rule in accordance with ILAC-G8:09/2019, unless otherwise reported. If the "result" column of the accredited method contains a record: "<" or ">", it means, that it is the test outcome directly related to the lower or upper limit of the measuring range of the accredited method, whereas the given expanded measurement uncertainty relates only to the lower or upper limit of the measuring range of the accredited method respectively. In such a case, the Laboratory presents the opinion and interpretation in the "statement of conformity" column, which is based on the obtained test outcome. This test report may not be copied in part without the prior written permission of J.S. Hamilton Poland Sp. z o.o. The responsibility of J.S. Hamilton Poland Sp. z o.o. is limited solely to the data issued in its original. J.S. Hamilton Poland Sp. z o.o. does not permit the use of the PCA accreditation symbol AB 079 by customers, subcontractors, external service providers and other third parties. For further information please refer to the PCA document - DA-02. The service confirmed by this report is subject to the General Terms and Conditions of Services of J.S. Hamilton Poland Sp. z o.o. published on [www.hamilton.com.pl](http://www.hamilton.com.pl).

\* Test method accredited

# Test performed by external provider



# HAMILTON

**FOSFA**  
INTERNATIONAL



AB 079

## TEST REPORT NO 19867/25/POZ



---

THE END OF THE REPORT