

STE SLJ FACTORY SARL
011 TAREK IBN ZIED
2013 BEN AROUS
TUNISIA

Comparative Study Report N° 1355669A01 v2

PAILLES EN PHA

22/12/2022

For the attention of **Louis Durbesson**
STE SLJ FACTORY SARL

Quotation 2022/73608 (DSP 941981)
Reference Biopaille réutilisable

Tested products

- PAILLE FIBRE VEGETALE

This report supersedes report 1355669A01 v1 which has to be destroyed. The laboratory absolves itself from the use of any previous report. Reason of the modification : Change of the name of the sample

Félix SIMONNET, *Study manager*

*The copy of this report is only authorized by unabridged edition
This edition includes 9 pages*

The reported results relate exclusively to the tested samples. The samples will be kept only 2 months from the date of this report. The sample and the information regarding sample have been provided by the client. All information related to the sample is under liability of the client and have not been checked by the Eurofins ATS Company.

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE

Tel : +33 (0)4 42 39 78 08
ATS@eurofins.com

S.A.S AU CAPITAL DE 628 264 euros
N° SIRET : 33761796300117
Code APE : 7120B

SUMMARY

1. FOREWORD	3
2. SYNTHESIS/CONCLUSION.....	5
3. COMMENTS.....	6
4. RESULTS.....	7
5. PROTOCOL DESCRIPTION	9

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE

Tel : +33 (0)4 42 39 78 08
ATS@eurofins.com

S.A.S AU CAPITAL DE 628 264 euros
N° SIRET : 33761796300117
Code APE : 7120B

1. FOREWORD

The aim of this study is to compare the following products:

TESTED PRODUCTS:



PAILLES FIBRE VEGETALE

Supplier Name : --

Batch N° : -

Barcode N° : --

Provided by : BIOPAILLE on 09/11/2022

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE

Tel : +33 (0)4 42 39 78 08
ATS@eurofins.com

S.A.S AU CAPITAL DE 628 264 euros
N° SIRET : 33761796300117
Code APE : 7120B

The study is based on:

-  Mechanical dishwashing resistance of utensils 20 washes - (1T0BC)
Protocole Reference : P04.1.MOP.01839.02

2. SYNTHESIS/CONCLUSION

According to the study carried out, the products can be ranked as follows:

Product / Brand	Description	Quality Level	Strength(s)	Point(s) to improve
--	PAILLES FIBRE VEGETALE	Correct	Mechanical resistance to dishwashing	Color resistance to dishwashing

Conclusion

According to the test carried out in the laboratory, the product is **correct**.

Straws can be washed 40 times in a dishwasher before observing a discoloration of the product. No other degradation (tear, folding, deformation) was observed during dishwashing cycles.

3. COMMENTS

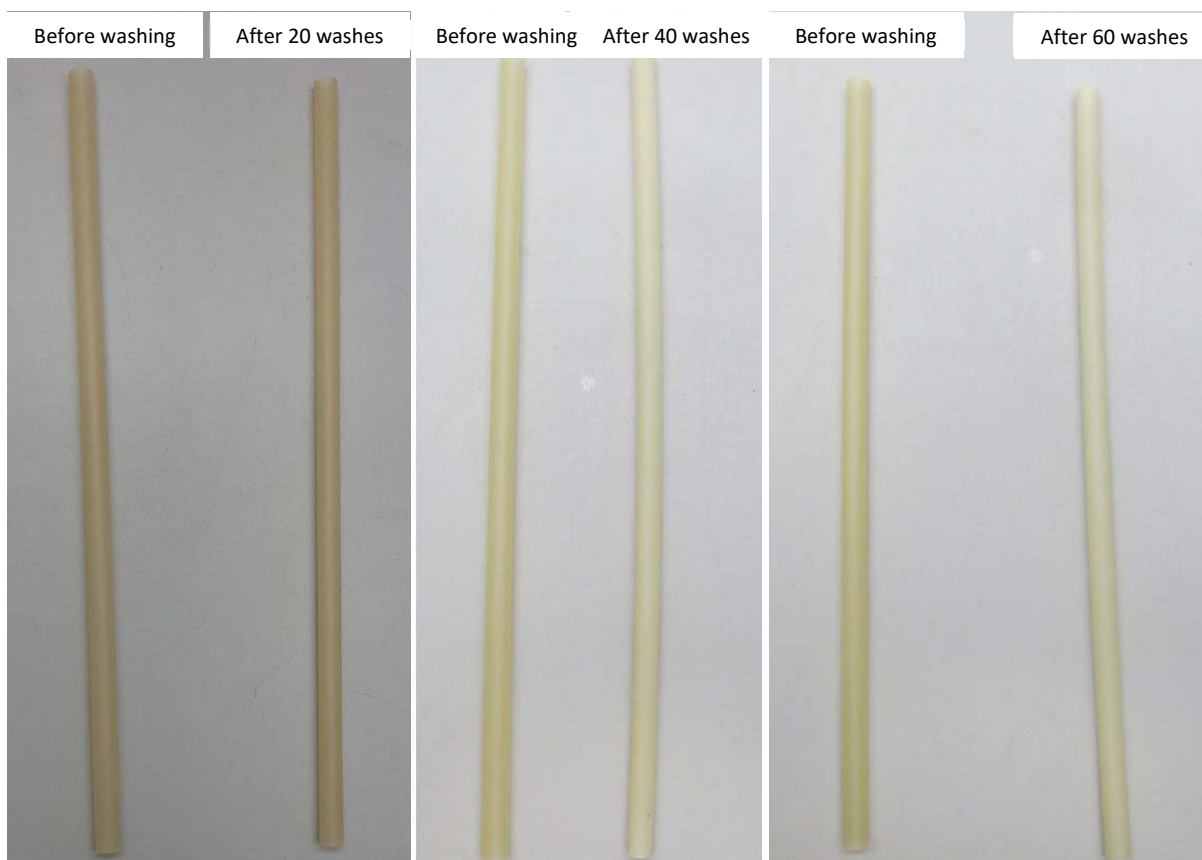
According to this study, the following points are highlighted:

Resistance

Straws are washed in a dishwasher, at a temperature of 55°C and with a water with a hardness of 0°TH.

Straws resist well to 20 washes. A beginning of discoloration is observed after 40 washes. This discoloration is clearly visible after 60 washes.

No mechanical degradation (tear, folding, deformation) was observed during dishwashing cycles.



Comparison of a new straw with a straw washed 20 times (left), 40 times (middle) and 60 times (right)

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE

Tel : +33 (0)4 42 39 78 08

ATS@eurofins.com

S.A.S AU CAPITAL DE 628 264 euros
N° SIRET : 33761796300117
Code APE : 7120B

4. RESULTS



Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE

Tel : +33 (0)4 42 39 78 08

ATS@eurofins.com

S.A.S AU CAPITAL DE 628 264 euros

N° SIRET : 33761796300117

Code APE : 7120B

SYNTHESIS TABLE - Straws

Brand	--
Manufacturer	--
Denomination:	PAILLE FIBRE VEGETALE
Batch number	-
Sample n°	884930
Mechanical dishwashing resistance of utensils 20 Washes - Performance test – NF EN 12875-1:2005-11 adapted – 20 washes	0-20 washes
Hardness (total)	0°TH
Number of sample(s)	2
Washing température °C	55
Observation	No degradation
Resistance after 20 washes in the dishwasher	Satisfactory (no deformation, tear or folding)
Mechanical dishwashing resistance of utensils 20 Washes - Performance test – NF EN 12875-1:2005-11 adapted – 20 washes	20-40 washes
Hardness (total)	0°TH
Number of sample(s)	2
Washing température °C	55
Observation	Very slight discoloration
Resistance after 20 washes in the dishwasher	Satisfactory (no deformation, tear or folding)
Mechanical dishwashing resistance of utensils 20 Washes - Performance test – NF EN 12875-1:2005-11 adapted – 20 washes	40-60 washes
Hardness (total)	0°TH
Number of sample(s)	2
Washing température °C	55
Observation	Change of color
Resistance after 20 washes in the dishwasher	Satisfactory (no deformation, tear or folding)

5. PROTOCOL DESCRIPTION

Mechanical dishwashing resistance of utensils 20 Washes - Performance test – NF EN 12875-1:2005-11 adapted – 20 washes

This method consists in evaluating the resistance of utensils to dishwashing after a defined number of washes. Any deterioration is noted after a visual comparison to a new sample. The test is satisfactory if the sample doesn't show any visual deterioration or any degradation. In case of degradation, a picture is taken.

Eurofins ATS

505 rue Louis Berton
CS 50550
13594 AIX-EN-PROVENCE Cedex 3 – FRANCE

Tel : +33 (0)4 42 39 78 08

ATS@eurofins.com

S.A.S AU CAPITAL DE 628 264 euros

N° SIRET : 33761796300117

Code APE : 7120B