

**TEST REPORT****Report No. : MAN:HL:1548009578****ISSUE DATE: 28-Dec-2024**

NATUSERVE FOOD PACKSS (P) LTD.
31 KNP SUBRAMANI NAGAR PUDHUR
ROAD TIRUPUR- 641604
INDIA
CONTACT PERSON: A VIGNESH

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :
SAMPLE DESCRIPTION BAGASSE BIO DEGRADABL PLATES

LAB PROVIDED DETAILS:**CONDITION OF SAMPLE** COMPLETE AND OK**THE LOCATION OF PERFORMANCE OF THE LABORATORY ACTIVITIES:**

SGS GURUGRAM LABORATORY- OVERALL MIGRATION, US FDA 21 CFR 176.170 (PAPER AND PAPERBOARD)

SGS MANESAR LABORATORY- MICROWAVE OVEN TEST

SAMPLE RECD ON

18-Dec -2024

TESTING PERIOD : 18-Dec -2024 - 28-Dec-2024**SUMMARY OF TEST RESULTS:**

TESTS	PASS	FAIL	REMARKS
1. MICROWAVE OVEN TEST	P		
2. DETERMINATION OF OVERALL MIGRATION OF CONSTITUENTS OF PLASTIC MATERIALS AND ARTICLES INTENDED TO COME IN CONTACT WITH FOOD STUFFS – ACCORDING TO IS 9845: 1998 (R 2020)	P		
3.US FDA 21 CFR 176.170 (PAPER AND PAPERBOARD)- DETERMINATION OF AMOUNT OF NET CHLOROFORM SOLUBLE EXTRACTIVES	P		

Remarks: **P=Pass****F=Fail****TEST(S) RESULT & METHOD:** PLEASE REFER TO NEXT PAGE(S). RESULTS APPLY TO THE SAMPLE AS RECEIVED**Per Pro SGS India Pvt. Ltd.****SANDIP BHUSHAN**
TECHNICAL MANAGER**Authorized Signatory-Mechanical**Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

JOE No. : 2448804904

400394264

Page 1 of 4

Control No.: 1548010749

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/terms> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. The laboratory shall be responsible for all the information provided in the report, except when information and instruction for specific scope of testing is provided by the customer. "Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Statement of conformity is based on comparison of measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer. Measurement Uncertainty is not taken into account unless otherwise requested in writing. Sample is not drawn by the Laboratory.

Connectivity and product, Testing Laboratory, Plot no. 21, Sector 3, IMT Manesar, Gurugram District, Haryana- 122050 (India) t: (+91-124 678 7600

SGS India Pvt. Ltd

www.sgs.com

Member of the SGS Group (SGS SA)

TEST REPORT

Report No. : MAN:HL:1548009578

ISSUE DATE: 28-Dec-2024



TEST RESULTS:

1. MICROWAVE OVEN TEST:

Method: SGS-TM-HL-00123, 2017
Test Condition: Specified cycles used : 05
No. Of Tested Sample: 01
Actual test microwave power: 700 W
Each Cycle Time: 3 Min
Substrate Used: 1 Cup cold cooked macaroni mix with one table spoon cooking oil.
Maximum surface temperature after 1st cycle: @ Rim 38°C

Tested Name	Observation	Requirement
Microwave Oven Test	After 1st Cycle : No visual change or Deformation observed After 2nd Cycle : No visual change or Deformation observed After 3rd Cycle : No visual change or Deformation observed After 4th Cycle : No visual change or Deformation observed After 5th Cycle : No visual change or Deformation observed	There shall not be any structural or physical damage, breakage, chipping, crazing, cracking, fading to the glaze, peeling of deal, Imperfection of the surface or change in shape observed. Temperature: Ceramic, glass – Cermic or Glass: 56°C; Plastic, wooden: 60°C.
Conclusion	Pass	--

Tested Item: BAGASSE BIO DEGRADABL PLATES

Remark: Test performed as per customer test condition and observation.

2. OVERALL MIGRATION:

Method: IS 9845: 1998 (R 2020) (1st Migration)

Simulant Used	Test Condition	Result (Amount of Extractives)		Permissible Limit	
		(mg/kg)	(mg/dm ²)	(mg/kg)	(mg/dm ²)
3% Acetic Acid	70°C for 02 Hours	39	6.5	60	10
n-Heptane	66°C for 02 Hours	<12	<2	60	10
Conclusion	--	Pass	Pass	--	--

Tested Item: BAGASSE BIO DEGRADABL PLATES

Note :-

1. mg/dm² = milligram per decimeter square, mg/kg= milligram per kilogram.
2. °C = degree Celsius, < = less than
3. Permissible Limit is according to indian food safety and standards (Packaging) regulations 2018 with amendment.
4. Test condition & simulant were specified by customer.
5. Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

TEST REPORT

Report No. : MAN:HL:1548009578

ISSUE DATE: 28-Dec-2024



3.US FDA 21 CFR 176.170 (Paper and Paperboard) – Determination of Amount of Net Chloroform Soluble Extractives:-

Method: In house Test Method (SO-IN-C&P – TE-142) Based on U.S 21 CFR Food And Drugs Administraion 176.170.

Extractants	Test Condition	Result (mg/inch ²)	Reporting Limit (mg/inch ²)	Permissible Limit (mg/inch ²)
Distilled Water	120°F for 24 hours	Not Detected	0.2	0.5
8% Alcohol	120°F for 24 hours	Not Detected	0.2	0.5
50% Alcohol	120°F for 24 hours	Not Detected	0.2	0.5
n-Heptane	70°F for 30 minutes	Not Detected	0.2	0.5
Conclusion	--	Pass	--	--

Tested Item: BAGASSE BIO DEGRADABL PLATES

Note:

1. mg/inch² = milligram per square inch
2. °F = degrees Fahrenheit
3. Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.
4. Above all testing has been performed as per customer request.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/terms> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. The laboratory shall be responsible for all the information provided in the report, except when information and instruction for specific scope of testing is provided by the customer. "Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Statement of conformity is based on comparison of measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer. Measurement Uncertainty is not taken into account unless otherwise requested in writing. Sample is not drawn by the Laboratory.

TEST REPORT

Report No. : MAN:HL:1548009578

ISSUE DATE: 28-Dec-2024



Sample as Received (Tested Sample)



Sample as Received (Grouped Sample)



*****END OF REPORT*****

JOE No. : 2448804904

400394264

Page 4 of 4

Control No.: 1548010749

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/terms> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. The laboratory shall be responsible for all the information provided in the report, except when information and instruction for specific scope of testing is provided by the customer. "Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Statement of conformity is based on comparison of measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer. Measurement Uncertainty is not taken into account unless otherwise requested in writing. Sample is not drawn by the Laboratory.

Connectivity and product, Testing Laboratory, Plot no. 21, Sector 3, IMT Manesar, Gurugram District, Haryana- 122050 (India) t: (+91-124 678 7600