



TEST REPORT

Report No. : MAN:HL:1548002767

ISSUE DATE: 07-May-2024



KAGATHARA INDUSTRIESLLP
AT. KALYANPAR, TANKARA-363650
MORBI (GUJ.)
INDIA
CONTACT PERSON: ANIL KAGATHARA

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION PULP MOULDED SUGARCANE BAGASSE TABLEWARE
COLOR WHITE
STYLE NO. PLATE, BOWL, MEALTRY
COUNTRY OF ORIGIN INDIA

LAB PROVIDED DETAILS:

CONDITION OF SAMPLE COMPLETE AND OK

THE LOCATION OF PERFORMANCE OF THE LABORATORY ACTIVITIES:

SGS GURUGRAM LABORATORY- OVERALL MIGRATION, EXTRACTABLE HEAVY METALS,
PENTACHLOROPHENOL (PCP) CONTENT, US FDA 21 CFR 176.170 (PAPER AND PAPERBOARD),
TOTAL MERCURY CONTENT

SGS MANESAR LABORATORY- SENSORY EXAMINATION – ODOUR AND TASTE TEST, MICROWAVE SAFE TEST,
MICROBIOLOGICAL TEST

SGS CHENNAI LABORATORY- PERFLUORINATED AND POLYFLUORINATED CHEMICALS (PFAS)

SAMPLE RECD ON 10-Apr-2024 TESTING PERIOD : 12-Apr-2024 - 07-May-2024

SUMMARY OF TEST RESULTS:

Table with 4 columns: TESTS, PASS, FAIL, REMARKS. Contains 9 rows of test results, including European Directorate for the Quality of Medicines & Healthcare (EDQM) and German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) tests.

Remarks: P=Pass

F=Fail

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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**

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**TEST RESULTS:**

**1. EUROPEAN DIRECTORATE FOR THE QUALITY OF MEDICINES & HEALTHCARE (EDQM) - PAPER AND BOARD USED IN FOOD CONTACT MATERIALS AND ARTICLES 2021:-**  
**OVERALL MIGRATION(TENAX):**

**Method:** With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods. (1<sup>st</sup> Migration);  
 With reference to BS EN 1186-13:2002.

Simulant Used	Test Condition	Result (mg/dm <sup>2</sup> )	Reporting Limit (mg/dm <sup>2</sup> )	Permissible Limit (mg/dm <sup>2</sup> )
Tenax	70°C For 02 Hours	Not Detected	2.0	10
<b>Conclusion</b>	--	Pass	--	--

**Tested Item:** PULP MOULDED SUGARCANE BAGASSE TABLEWARE

**Note :-**

1. mg/dm<sup>2</sup> = milligram per square decimeter.
2. °C = degree Celsius.
3. Permissible Limit is according to European Directorate for the Quality of Medicines & Healthcare (EDQM) – Paper and board used in food contact materials and articles 2021.
4. Analytical tolerance of aqueous simulants is 2mg/dm<sup>2</sup>.
5. Test condition & simulant were specified by customer.
6. Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

**2. GERMAN FOOD, ARTICLES OF DAILY USE AND FEED CODE OF SEPTEMBER 1, 2005 (LFGB), SECTION 30 & 31 WITH AMENDMENTS, AND BFR RECOMMENDATION:**

**EXTRACTABLE HEAVY METALS:-**

**Method:** With reference to EN 645:1993 (cold water extraction) and EN 647:1993 (hot water extraction). Analysis was performed by ICP-MS

Test Item	Result (µg/L)	Result (µg/L)	Reporting Limit (µg/L)	Permissible Limit (µg/L)
	Hot Water	Cold Water		
Extractable Lead	Not Detected	Not Detected	5	10
Extractable Cadmium	Not Detected	Not Detected	1	5
Extractable Aluminium	Not Detected	Not Detected	100	1000
<b>Conclusion</b>	Pass	Pass	--	--

**Tested Item:** PULP MOULDED SUGARCANE BAGASSE TABLEWARE

**Note:**

- µg/mL = microgram per liter.
- Permissible Limit is according to BfR Recommendation XXXVI.
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory

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**3. GERMAN FOOD, ARTICLES OF DAILY USE AND FEED CODE OF SEPTEMBER 1, 2005 (LFGB), SECTION 30 & 31 WITH AMENDMENTS AND ARTICLE 3 OF EUROPEAN REGULATION NO. 1935/2004: SENSORY EXAMINATION – ODOUR AND TASTE TEST:**

**Method:** With reference to DIN 10955: 2023  
**Test condition:** 70°C for 02 Hours  
**Test media:** 0.2 % Acetic Acid  
**No. of panelist:** 6

**Test Result:**

Test Media	Test Item	Result	Maximum Permissible Limit
0.2 % Acetic Acid	Sensorial examination odour	0	2.5
	Sensorial examination taste	0	2.5
<b>Conclusion</b>		Pass	--

**Tested Item:** PULP MOULDED SUGARCANE BAGASSE TABLEWARE

**Note:** 1. Intensity scale (rounded at 0.5):  
 0 – no perceptible difference  
 1 – just perceptible difference  
 2 – slight difference  
 3 – marked difference  
 4 – strong difference

2. Permissible Limit is according to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30& 31 with Amendments.

**4. PENTACHLOROPHENOL (PCP) CONTENT:-**

**Method:** With reference to ISO 17070: 2015. Analysis was performed by GC-ECD.

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
PCP Content	Not Detected	0.05	5
<b>Conclusion</b>	Pass	--	--

**Tested Item:** PULP MOULDED SUGARCANE BAGASSE TABLEWARE

**Note:**  
 1. mg/kg = milligram per kilogram  
 2. Permissible Limit is specified by commission regulation (EU) 2021/277 amending Annex to POP regulation (EU) 2019/1021.  
 3. Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

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**5. US FDA 21 CFR 176.170 (PAPER AND PAPERBOARD) – DETERMINATION OF AMOUNT OF NET CHLOROFORM SOLUBLE EXTRACTIVES:-**

**Method:** In house method (SO-IN-C&P-TE-142) based on U.S 21 CFR Food And Drugs Administration 176.170

Extractants	Test Condition	Result (mg/inch <sup>2</sup> )	Reporting Limit (mg/inch <sup>2</sup> )	Permissible Limit (mg/inch <sup>2</sup> )
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
<b>Conclusion</b>	--	Pass	--	--

**Tested Item:** PULP MOULDED SUGARCANE BAGASSE TABLEWARE

**Note:**

- mg/inch<sup>2</sup> = milligram per square inch
- °F = degrees Fahrenheit.
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

**6. MICROWAVE SAFE TEST:**

**Method:** With reference to SGS-TM-HL-00123, 2017  
**Test Condition:** Specified cycles used: 05  
 Each Cycle Time: 2 min.(as per customer request)  
 Substrate Used: Filled With ½ cup cooked macaroni.  
 Max. Surface Temp. After 1<sup>st</sup> cycle: Top Rim: 32.2°C

Tested Name	Test Result	Requirement
Microwave Safe Test	<b>After 5<sup>th</sup> cycle:</b> No deformation / visual change observed.	/

**Tested Item:** PULP MOULDED SUGARCANE BAGASSE TABLEWARE

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**7. MICROBIOLOGICAL TEST:**

TEST ITEM	Method	TEST RESULT	UNIT
Total Plate Count	ISO 18593: 2018	<10	cfu/unit
Coliforms	ISO 18593: 2018	Absent	Per unit
Escherichia Coli	ISO 18593: 2018	Absent	Per unit
Yeast and Mould	ISO 18593: 2018	<10	cfu/unit

**Tested Item:** PULP MOULDED SUGARCANE BAGASSE TABLEWARE

**Note:** Cfu: Colony forming unit per swab.

**8. TOTAL MERCURY CONTENT:**

**Method:** SGS In house Method; Analysis was performed By AAS/ ICP-OES/ICP-MS.

Test Name	Test Result (mg/kg)	Requirement
Total Mercury Content	Not Detected	/

Detection Limit: 5 mg/kg

**Tested Item:** PULP MOULDED SUGARCANE BAGASSE TABLEWARE

**Note:**

- mg/kg = milligram per kilogram.
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.

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**9. PERFLUORINATED AND POLYFLUORINATED CHEMICALS (PFAS):**

**Method:** With reference to EN ISO 23702-1:2023. Analysis was conducted by HPLC-MS/MS and GC-MS.

	<b>CAS-No.</b>	<b>Result (mg/kg)</b>
<b>PFOS, its salts and related compounds</b>		
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	Not Detected
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	Not Detected
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	Not Detected
2-(N-ethylperfluoro-1-octanesulfonamido)- ethanol (EtFOSE)	1691-99-2	Not Detected
2-(N-methylperfluoro- 1-octanesulfonamido) -ethanol (MeFOSE)	24448-09-7	Not Detected
Perfluorooctane sulfonamide (PFOSA)	754-91-6	Not Detected
<b>PFOA, its salts</b>		
Perfluorooctanoic acid (PFOA)	335-67-1	Not Detected
<b>PFOA-related compounds</b>		
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	Not Detected
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	Not Detected
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	Not Detected
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	Not Detected
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	Not Detected
Perfluoro-1-iodooctane (PFOI)	507-63-1	Not Detected
2H,2H Perfluorodecane Acid (H2PFDA / 8:2 FTCA)	27854-31-5	Not Detected
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH)	678-39-7	2.25
<b>C9-C14 PFCA, its salts</b>		
Perfluorononane Acid (PFNA)	375-95-1	Not Detected
Perfluorodecane Acid (PFDA)	335 -76-2	Not Detected
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	Not Detected
Perfluorododecanoic Acid (PFDoDA)	307-55-1	Not Detected
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	Not Detected
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	Not Detected
Perfluoro-3,7-dimethyloctanoic Acid (PF- 3,7-DMOA)	172155-07-6	Not Detected

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	CAS-No.	Result (mg/kg)
<b>C9-C14 PFCA-related substances</b>		
Perfluorodecane sulfonic Acid (PFDS)	335-77-3	Not Detected
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	3.82
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	Not Detected
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	Not Detected
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC2H5)3)	101947-16-4	Not Detected
2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnDA / 8:3 FTCA)	34598-33-9	Not Detected
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	Not Detected
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	Not Detected
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	Not Detected
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1	Not Detected
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	Not Detected
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	Not Detected
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	Not Detected
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	Not Detected
2H,2H Perfluorodecane Acid (H2PFDA / 8:2 FTCA)	27854-31-5	Not Detected
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH)	678-39-7	Not Detected
<b>PFHxS, its salts</b>		
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	Not Detected
<b>PFHxS-related compounds</b>		
N-Methylperfluoro-1-hexane sulfonamide (N-Me-FHxSA)	68259-15-4	Not Detected
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	Not Detected

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	CAS-No.	Result (mg/kg)
<b>Other PFAS</b>		
Perfluorobutane acid (PFBA)	375-22-4	Not Detected
Perfluorobutanesulfonic acid (PFBS)	375-73-5	Not Detected
Perfluoropentane acid (PFPeA)	2706-90-3	Not Detected
Perfluorohexane acid (PFHxA)	307-24-4	Not Detected
Perfluoroheptane acid (PFHpA)	375-85-9	Not Detected
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	Not Detected
7H-Dodecanefluoroheptane acid (7HPFHpA)	1546-95-8	Not Detected
Perfluorooctanesulphonic acid 1H,1H,2H,2H (6:2 FTS)	27619-97-2	Not Detected
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	Not Detected
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	Not Detected
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	Not Detected
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (HPFO-DA)	13252-13-6	Not Detected
1H, 1H, 2H, 2H-Perfluorohexanesulfonic Acid (4:2 FTS)	757124-72-4	Not Detected
Perfluorooctane sulfonamidoacetic acid (FOSAA)	2806-24-8	Not Detected
N-Methylperfluoro-1- octanesulfonamidoacetic acid (N- MeFOSAA)	2355-31-9	Not Detected
N-Ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	Not Detected
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	Not Detected
Perfluorononane sulfonic acid (PFNS)	68259-12-1	Not Detected
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	Not Detected
Perfluorododecane sulfonic acid (PFDoDS)	79780-39-5	Not Detected
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	Not Detected
2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	Not Detected
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	Not Detected
Hexadecanoic acid, hentriacontafuoro- (PFHxDA)	67905-19-5	Not Detected
Octadecanoic acid, pentatriacontafuoro- (PFODA)	16517-11-6	Not Detected
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2 diPAP)	678-41-1	Not Detected
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	Not Detected
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	Not Detected
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	Not Detected
Nonafluoro-3,6-dioxaheptanoc acid (NFDHA)	151772-58-6	Not Detected
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	Not Detected
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	Not Detected
Perfluoro (2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	Not Detected
3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	Not Detected
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	Not Detected

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**Note :-**

- 1 ppm = 1 mg/kg
- Test has been sub-contracted to ISO/IEC 17025 accredited laboratory.
- Above all testing has been performed as per customer request.

1. PFOS refer to its salts/derivative including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-Na (CAS No.: 4021-47-0), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-N(C<sub>10</sub>H<sub>21</sub>)<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub> (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7)
2. PFOA refer to its salts/derivative including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)
3. PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances
4. PFNA refer to its salts including PFNA-Na (CAS No.: 21049-39-8) and PFNA-NH<sub>4</sub> (CAS No.: 4149-60-4); PFDA refer to its salts including PFDA-Na (CAS No. 3830-45-3) and PFDA-NH<sub>4</sub> (CAS No: 3108-42-7); PFDoDA refer to its salts including PFDoDA-NH<sub>4</sub> (CAS No.: 3793-74-6)
5. PFBS refers to its salts including PFBS-K (CAS No.: 29420-49-3) and PFBS-H<sub>2</sub>O (CAS No.: 59933-66-3)
6. PFHxA refers to its salt including APFHx (CAS No.: 21615-47-4)
7. PFHxS refers to its salts including PFHxS-Na (CAS No.: 82382-12-5), PFHxS-K (CAS No.: 3871-99-6), PFHxS-Li (CAS No.: 55120-77-9) and PFHxS-NH<sub>4</sub> (CAS No.: 68259-08-5)
8. PFHpS refers to its salts including PFHpS-Na (CAS No. ~~68555-66-8~~ 21934-50-9) and PFHpS-K (CAS No.: 60270-55-5)
9. HPFO-DA refers to its salts including HFPO-DA-NH<sub>4</sub> (CAS No.: 62037-80-3),  
HFPO-DA-K (CAS No.: 67118-55-2) and HFPO-DA-F (CAS No.: 2062-98-8)
10. PFDS refer to its salts including PFDS-Na (CAS No.: 2806-15-7), PFDS-K (CAS No.: 2806-16-8) and PFDS-NH<sub>4</sub> (CAS No.: 67906-42-7)
11. H<sub>2</sub>PFDA / 8:2 FTCA refer to its salt/derivative including 8:2 FTCA-P(C<sub>4</sub>H<sub>9</sub>)<sub>4</sub> (CAS No.: 882489-14-7)

**Reporting limit:**

- PFOS, its salts and related compounds = 1 µg/m<sup>2</sup>
- PFOA, its salts = 0.010 mg/kg = 10 ppb
- PFOA-related compounds = 0.1 mg/kg (each)
- C9-C14 PFCA, their salts = 0.010 mg/kg (each) = 10 ppb
- C9-C14 PFCA-related substances = 0.1 mg/kg (each)
- PFHxS, its salts = 0.010 mg/kg (each) = 10 ppb
- PFHxS-related compounds = 0.1 mg/kg (each)
- Other PFAS = 0.1 mg/kg (each)

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**Requirement:**

PFOS, its salts and related compounds	
Textile or other coated materials	1 µg/m <sup>2</sup> (each)
Recommended requirement with reference to commission regulation (EU) 2019/1021 ; and Switzerland ORRChem Annex 1.16 of Art. 3 in SR 814.81	
PFOA, its salts	25 ppb (0.025 mg/kg)
PFOA-related compounds	1 mg/kg (total)
Recommended requirement with reference to Regulation (EU) 2020/784 amending Annex I to Regulation (EC) 2019/1021; and Switzerland ORRChem Annex 1.16 of Art. 3 in SR 814.81	
C9-C14 PFCA, their salts	25 ppb (0.025 mg/kg) (total)
C9-C14 PFCA-related substances	260 ppb (0.26 mg/kg) (total)
Recommended requirement with reference to commission regulation (EU) 2021/1297 amending Annex XVII to Regulation (EC) 1907/2006. (Effective date: 25th February 2023); and Switzerland ORRChem Annex 1.16 of Art. 3 in SR 814.81	
PFHxS, its salts	25 ppb (0.025 mg/kg)
PFHxS-related compounds	1 mg/kg (total)
Recommended requirement with reference to Switzerland ORRChem Annex 1.16 of Art. 3 in SR 814.81	
Other PFAS	Not Applicable

Sample as Received (Tested Sample)

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## TEST REPORT

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Sample as Received (Grouped Sample)



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