

MANN BAMBOO FIBER WARE CO., LTD

NO. 12616, CLASSIC PLAZA, FANHUA AVENUE, ECONOMIC DEVELOPMENT ZONE, HEFEI, CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : BAMBOO FIBER CUP  
SGS Ref No. : CAN16-253294  
Style / Item No. : GC-Y008  
Sample Receiving Date : Dec. 20, 2016  
Test Performing Date : Dec. 20, 2016 to Dec. 28, 2016  
Test Performed : Selected test(s) as requested by applicant  
Test Result(s) : For further details, please refer to the following page(s)



SGS Standards Technical Services Co., Ltd.  
Xiamen Branch / Xiamen Center Goods Laboratory

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Result Summary :

Test Requested	Conclusion
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation – Overall migration	See Results
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Colour Release	See Results
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Specific migration of Melamine	See Results
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Specific Migration of Heavy Metal	See Results
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 and Commission Regulation (EU) No 284/2011 of 22 March 2011 and BfR recommendation –Specific migration of Formaldehyde	See Results
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Lead and Cadmium	See Results
Verification for label claim validity - Bisphenol A free by Total Content of Bisphenol A	PASS
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results

Signed for and on behalf of  
SGS-CSTC Co., Ltd. Xiamen Branch



Sharky Xia  
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN16-253294.001	Beige cup	Bamboo fiber

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation – Overall migration**

Test 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;  
or EN 1186-9:2002 aqueous food simulants by article filling method;  
or EN 1186-14:2002 substitute test

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
20% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
95% Ethanol	2.0hr(s)	60°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
Isooctane	0.5hr(s)	40°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with  
mg/dm<sup>2</sup> = milligram per square decimeter
2. °C = degree Celsius
3. The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V. Report the 3rd extractive result.
4. Limit = Reference limit. The test sample is out of scope of the standard.

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Colour Release**

Test Method : With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX.

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Visible Color Migration in 2% Acetic Acid (W/V)	★	Negative
Visible Color Migration in Coconut Oil	★	Negative



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Notes :

1. ★ = No color release observed
2. Negative = No color release observed, Positive = Color release observed.
3. Limit = Reference limit. The test sample is out of scope of the standard.

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments—Sensorial examination odour and taste test**

Test Method : With reference to DIN10955:2004,direct contact method.  
 Test condition: 70°C,2.0hr(s);  
 Test media:Distilled water  
 No.of panelist:6

Test Item(s)	Limit	001
Sensorial examination odour (Point scale)	2.5	0.0
Sensorial examination taste (Point scale)	2.5	0.0
<b>Comment</b>		<b>PASS</b>

Notes :

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

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation—Specific migration of Melamine**

Test 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 13130-1:2004 for selection of test method. Analysis was performed by LC-MS.

**Sample 001**

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution  
 Test Condition : 70°C 2.0hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	3rd



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Area/Volume	-	dm <sup>2</sup> /kg	-	6.6
Specific migration of Melamine	2.5	mg/kg	2.0	ND

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)
- 5.Limit = Reference limit. The test sample is out of scope of the standard.

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Specific Migration of Heavy Metal**

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method, analysis was performed by ICP-OES.

**Sample 001**

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70°C 2.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.6
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	25	mg/kg	0.5	ND

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)
- 5.Limit = Reference limit. The test sample is out of scope of the standard.



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**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 and Commission Regulation (EU) No 284/2011 of 22 March 2011 and BfR recommendation –Specific migration of Formaldehyde**

Test Method : With reference to EN13130-1:2004, analysis was performed by UV-Vis.

**Sample 001**

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70°C 2.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm <sup>2</sup> /kg	-	6.6
Specific Migration of Formaldehyde	15	mg/kg	0.1	4.8

**Notes :**

1. mg/kg = milligram per kilogram of foodstuff in contact with
  2. °C = degree Celsius
  3. MDL=Method Detection Limit
  4. ND = Not Detected(less than MDL)
  5. Test condition was referred to EU JRC guidelines EUR 24815 EN 2011,in support of Commission Regulation (EU) No 284/2011 of 22 March 2011.
  - 6.Limit = Reference limit. The test sample is out of scope of the standard.
- Remark : The test is performed in triplicate as per EU JRC guidelines EUR 24815 EN 2011,in support of Commission Regulation (EU) No 284/2011 of 22 March 2011. The highest value among 3 trial results is reported.

**German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Lead and Cadmium**

Test Method : Microwave digestion (GZTC CHEM-TOP-004-01) , analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	★	mg/kg	2	ND
Lead (Pb)	★	mg/kg	2	ND

**Notes :**

1. mg/kg = milligram per kilogram of sample
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)
4. ★= Absent
- 5.Limit = Reference limit. The test sample is out of scope of the standard.



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### Verification for label claim validity - Bisphenol A free by Total Content of Bisphenol A

Test Method : With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by HPLC-MS

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Total content of Bisphenol A	mg/kg	0.1	ND
<b>Comment</b>			<b>PASS</b>

Notes :

1. mg/kg = milligram per kilogram
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Sum of 18 PAHs	-	1.0	mg/kg	-	ND
Sum of 7 PAHs Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	1.0	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	1.0	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	-	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	-	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	-	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	-	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	-	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	-	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	-	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	0.2	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	0.2	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	0.2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	0.2	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	0.2	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	0.2	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	0.2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	0.2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	0.2	mg/kg	0.1	ND



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Benzo(g,h,i)perylene(BPE)	191-24-2	0.2	mg/kg	0.1	ND
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Notes :

1. mg/kg = milligram per kilogram of sample
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)
- 4.Limit = Reference limit. The test sample is out of scope of the standard.

Remark : This test was subcontracted to SGS other qualified subcontractor.

Sample photo(s):



CAN16-253294.001

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\*\*\*End of Report\*\*\*



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