

No.: GZHL2001001982CW

HEFEI ECO BAMBOO FIBER WARE CO., LTD. ROOM 1908, GEZHOUBA INTERNATIONAL, NO 5211, FURONG ROAD, HEFEI, ANHUI, CHINA.

Sample Description	: BAMBOO FIBER DINNERWARE SET
Country of Origin	: CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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: CANHG2000920101
: Jan 13, 2020
: Jan 14, 2020 to Jan 22, 2020
: Selected test(s) as requested by applicant
: For further details, please refer to the following page(s)

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



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German Food, Articles of	Daily Use and Feed Code of Septemb	per 1, 2005 (LFGB),	PASS
Section 30 & 31 with ame 10/2011 with amendment	ndments, European Commission Reg s and BfR recommendation–Lead and	ulation (EU) No I Cadmium	
German Food, Articles of	Daily Use and Feed Code of Septemb	oer 1, 2005 (LFGB)	PASS
Section 30 & 31 with ame	ndments -Total Arsenic Content		
German Food, Articles of	Daily Use and Feed Code of Septemb	oer 1, 2005 (LFGB)	PASS
Section 30 & 31 with ame	ndments – Pentachlorophenol (PCP)	content	
Polycyclic Aromatic Hydro	ocarbons (PAHs)		PASS

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Joe Lu Authorized Signatory



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No.: GZHL2001001982CW

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material
			(claimed by the client)
SN1	CAN20-009201.001	Beige plate w/ multicolor printing	Bamboo+melamine

### 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;

Simulant Used	Time	<b>Temperature</b>	Max. Permissible	Result of 001	<u>Comment</u>
			<u>Limit</u>	<b>Overall Migration</b>	
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70℃	60mg/kg	<20mg/kg	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS

Notes :

1. mg/dm<sup>2</sup> = milligram per square decimeter

mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius

3. Analytical tolerance of aqueous simulants is 2mg/dm<sup>2</sup> or 12mg/kg

4. Analytical tolerance of fatty food simulants is 3mg/dm<sup>2</sup> or 20mg/kg

5. 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.

# 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.

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



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#### Notes :

 $1. \star = No \text{ color release observed}$ 

2.Negative = No color release observed, Positive = Color release observed.

# 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	<u>Unit</u>	MDL	Test result
	<u>Limit</u>			
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	11
Specific migration of Melamine	2.5	mg/kg	2.0	ND
Comment				PASS

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)

## German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 &31 with amendments- Specific Migration of Formaldehyde

Test Method : With reference to EN13130-1:2004 for selection of test method, analysis was performed by UV-Vis.

#### Sample 001

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



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<u>Test Item(s)</u>	Max. Permissible	<u>Unit</u>	MDL	Test result
	<u>Limit</u>			
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	11
Specific migration of Formaldehyde	15	mg/kg	0.1	2.3
Comment				PASS

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)

## 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 Lead

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 ICP-MS.

## Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution Test Condition :  $70^{\circ}$ C 2.0hr(s)

<u>Test Item(s)</u>	Max. Permissible	<u>Unit</u>	MDL	Test result
	<u>Limit</u>			
Migration times	-	-	-	1st
Area/Volume	-	dm²/kg	-	11
Lead	*	mg/kg	0.01	ND
Comment				PASS

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. ★= Absent



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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 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>	Max. Permissible	<u>Unit</u>	MDL	Test result
	<u>Limit</u>			
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	11
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	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND
Comment				PASS

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. The limits of nickel according to Commission Regulation (EU) 2017/752 shall be applied from 19 May 2019.

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

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

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### Sample 001

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

Test Item(s)	Max. Permissible	<u>Unit</u>	MDL	Test result
	<u>Limit</u>			
Migration times	-	-	-	3rd
Area/Volume	-	dm²/kg	-	11
Specific Migration of Formaldehyde	15	mg/kg	0.1	5.3
Comment				PASS

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.

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>	MDL	<u>001</u>
Cadmium (Cd)	*	mg/kg	2	ND
Comment				PASS
Lead (Pb)	*	mg/kg	2	-
Comment				-

Notes :

- 1. mg/kg = milligram per kilogram of sample
- 2. MDL=Method Detection Limit
- 3. ND= Not Detected(less than MDL)
- 4. ★= Absent

5.When lead or/and cadmium is/are found to be present but feasibly low in value to migrate, migaratable lead or cadmium will be determined to evaluate its compliance.



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## German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 & 31 with amendments -Total Arsenic Content

Test Method : With reference to US EPA Method 3052:1996(GZTC CHEM-TOP-004-01), analysis was performed by ICP-MS

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Total Arsenic Content	*	mg/kg	2	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram

2. MDL=Method Detection Limit

- 3. ND = Not Detected(less than MDL)
- 4. ★= Absent

# German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 & 31 with amendments – Pentachlorophenol (PCP) content

Test Method : With reference to § 64 LFGB BVL B 82.02.8 – 2001, analysis was performed by GC-ECD or GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Pentachlorophenol (PCP)	5	mg/kg	0.05	ND
Comment				PASS

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.

Test Item(s)	CAS NO.	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Sum of 18 PAHs	-	1.0	mg/kg	-	ND
Sum of 7 PAHs Acenaphthylene. Acenaphthene,	-	1.0	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Anthracene,					
Fluoranthene					
Naphthalene(NAP)	91-20-3	1.0	mg/kg	0.1	ND



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

Notes :

1. mg/kg = milligram per kilogram of sample

2. MDL=Method Detection Limit

3. ND= Not Detected(less than MDL)

Remark: According to client's statements the tested samples are used in their products shown in the product photos.



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Sample photo:



CAN20-009201.001

Product Photo:



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



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