



## STC Test Report

Date : 2016-08-23  
No. : DC200165

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**Applicant (Code: HFB001)** : Hefei Eco Bamboo fiber Ware Co., Ltd  
RE 3503, B1 I MORE PLAZA, NO.1718 QIMEN ROAD, HEFEI,  
ANHUI, CHINA

**Description of Sample(s)** : Sample(s) received is/ are stated to be:  
Bamboo fiber cup  
Buyer: Balev Bio Ltd.  
Style No.: BM-C3001  
Country of Origin: China  
Country of Destination: Bulgaria

**Date Sample(s) Received** : 2016-08-15

**Date Tested** : 2016-08-15 to 2016-08-23

**Investigation Requested** : Please refer to result summary on next page

**Conclusion(s)** : Please refer to result summary on next page



Yan Liang, Sky  
Authorized Signatory  
Chemical, Food and Pharmaceutical Department  
For and on behalf of  
STC (Dongguan) Company Ltd.

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### Result Summary:

No.	Test Requested	Conclusion	Remark
1	Overall migration - EU No.10/2011 on plastic materials and articles intended to come into contact with food and § 30 and 31 LFGB - overall migration in 3%(w/v) acetic acid - overall migration in 10% (v/v) ethanol	PASS	-
2	Specific migration of heavy metals - EU No.10/2011 on plastic materials and articles intended to come into contact with food and § 30 and 31 LFGB	PASS	-
3	Specific migration of primary aromatic amines - EU No.10/2011 on plastic materials and articles intended to come into contact with food and § 30 and 31 LFGB	PASS	-
4	Specific migration of melamine - EU No.10/2011 on plastic materials and articles intended to come into contact with food and § 30 and 31 LFGB	PASS	-
5	Specific migration of formaldehyde - EU No.10/2011 on plastic materials and articles intended to come into contact with food and § 30 and 31 LFGB	PASS	-
6	Cadmium, Lead and Mercury content - Council of Europe Committee of Ministers Framework Resolution ResAP(2002)1 on paper and board materials and articles intended to come into contact with foodstuffs	PASS	-
7	Pentachlorophenol - Council of Europe Committee of Ministers Framework Resolution ResAP(2002)1 on paper and board materials and articles intended to come into contact with foodstuffs and	PASS	-
8	Sensory Test (Odour and Taste) for Paper and Paperboard in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB	PASS	-
9	Total arsenic content	See result(s) for details	-

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### RESULT(S):

1. **OVERALL MIGRATION - EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND § 30 AND 31 LFGB**

Method Used: Ref EN 1186-1:2002 & EN 1186-3:2002,

- overall migration in 3%(w/v) acetic acid at 70°C for 2 hours
- overall migration in 10%(v/v) ethanol at 70°C for 2 hours

Sample Identity	Colour / Component	Style
1	Bamboo fiber cup	-

Maximum Allowable Limit	10 mg/dm <sup>2</sup> (each food or food simulants) or 60 mg/kg for infants and young children (each food or food simulants)
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Test Item(s)	Results(mg/dm <sup>2</sup> )
	1
Overall migration in 3%(w/v) acetic acid	2.2
Overall migration in 10%(v/v) ethanol	2.7
Conclusion	Pass

Notes :  
- ND = Not Detected  
- Method detected limit: 1.0 mg/dm<sup>2</sup>  
- mg/dm<sup>2</sup> = milligram per square decimetre

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2. **SPECIFIC MIGRATION OF HEAVY METALS - EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND § 30 AND 31 LFGB**

Method Used: Extracted the sample in 3%(w/v) acetic acid for 70°C for 2 hours, analyzed by ICP-AES.

Sample Identity	Colour / Component	Style
1	Bamboo fiber cup	-

Element	Ba	Cu	Fe	Li	Mn	Co	Zn
Maximum Allowable Limit (mg/kg)	1	5	48	0.6	0.6	0.05	25

Test Item(s)	Results(mg/kg)	
	1	
Ba	ND	
Co	ND	
Cu	ND	
Fe	ND	
Li	ND	
Mn	ND	
Zn	ND	
Conclusion	Pass	

- Notes :
- Method detected limit (mg/kg):  
Ba 0.1, Co 0.05, Cu 1, Fe 1, Li 0.1, Mn 0.1, Zn 1
  - Ba=barium, Cu= Copper, Fe= iron, Li=lithium, Mn=manganese, Co= cobalt, Zn= zinc

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3. **SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINES - EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND § 30 AND 31 LFGB**

Method Used: Ref. BS EN13130-1:2004, in 3% acetic acid for 70°C for 2 hours, followed by UV measurement with reference to DIN55610

Sample Identity	Colour / Component	Style
1	Bamboo fiber cup	-

Client's Maximum Allowable Limit :	ND
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Test Item(s)	Results(mg/kg)
	1
Specific migration of Primary Aromatic Amines	ND
Conclusion	Pass

Notes : - Method detected limit: 0.01 mg/kg  
- mg/kg = milligram per kilogram = ppm = part(s) per million

4. **SPECIFIC MIGRATION OF MELAMINE - EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND § 30 AND 31 LFGB**

Method Used: Ref. BS EN13130-1:2004, CEN/TS 13130-27:2005, in 3% acetic acid for 70°C for 2 hours, followed by High-performance liquid chromatography

Sample Identity	Colour / Component	Style
1	Bamboo fiber cup	-

Maximum Allowable Limit :	2.5 mg/kg food or food simulant
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Test Item(s)	Results(mg/kg)
	1
Migration of melamine in 3%(v/v) acetic acid	ND
Conclusion	Pass

Notes : - Method detected limit: 0.5 mg/kg  
- mg/kg = milligram per kilogram = ppm = part(s) per million

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5. **SPECIFIC MIGRATION OF FORMALDEHYDE - EU NO.10/2011 ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD AND § 30 AND 31 LFGB**

Method Used: Ref. BS EN13130-1:2004, CEN/TS 13130-23:2005, in 3% acetic acid for 70°C for 2 hours, followed by UV/Vis Spectrophotometer

Sample Identity	Colour / Component	Style
1	Bamboo fiber cup	-

Maximum Allowable Limit :	15 mg/kg food or food simulant
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Test Item(s)	Results(mg/kg)
	1
Migration of formaldehyde in 3%(w/v) acetic acid	1.7
Conclusion	Pass

Notes : - Method detected limit:0.1 mg/kg  
- mg/kg = milligram per kilogram = ppm = part(s) per million

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6. **CADMIUM, LEAD AND MERCURY CONENT - COUNCIL OF EUROPE COMMITTEE OF MINISTERS FRAMEWORK RESOLUTION RESAP(2002)1 ON PAPER AND BOARD MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOODSTUFFS**

Method Used: EN 645:1994 and analysis by Inductively Coupled Argon Plasma Spectrometer

Sample Identity	Colour / Component	Style
1	Bamboo fiber cup	-

Maximum Allowable Limit :	Cadmium: 0.002 mg/dm <sup>2</sup> Lead: 0.003 mg/dm <sup>2</sup> Mercury: 0.002 mg/dm <sup>2</sup>
---------------------------	--

Test Item(s)	Results(mg/dm <sup>2</sup> )
	1
Cadmium	ND
Lead	ND
Mercury	ND
Conclusion	Pass

Notes : - Method detected limit: 0.001 mg/dm<sup>2</sup>  
- mg/dm<sup>2</sup> = milligram per square decimeter

7. **PENTACHLOROPHENOL - COUNCIL OF EUROPE COMMITTEE OF MINISTERS FRAMEWORK RESOLUTION RESAP(2002)1 ON PAPER AND BOARD MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOODSTUFFS**

Method Used: In house method, analysis by Gas Chromatography with Mass Selective Detector

Sample Identity	Colour / Component	Style
1	Bamboo fiber cup	-

Maximum Allowable Limit :	0.15 mg/kg
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Test Item(s)	Results(mg/kg)
	1
Pentachlorophenol	ND
Conclusion	Pass

Notes : - Method detected limit: 0.10 mg/kg  
- mg/kg = milligram per kilogram

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8. **SENSORY TEST (ODOUR AND TASTE) FOR MATERIALS IN CONTACT WITH FOODSTUFFS - EC NO. 1935/2004 AND § 30 AND 31 LFGB**  
Method Used: DIN 10955

Sample Identity	Item/ Component Description	Style
1	Bamboo fiber cup	-

Maximum Allowable Limit :	Shall not be greater than 2.5 scale
---------------------------	-------------------------------------

Food Simulant	Result (scale)	
	1	
	Taste	Odour
Distilled water	0	0
3% Acetic acid	0	0
Rectified olive oil	0	0
Conclusion	Pass	

Note(s):

- scale 0 = No perception off-odour;
- scale 1 = Off-odour just perceptible (still difficult to define)
- scale 2 = Moderation off-odour;
- scale 3 = Moderately strong off-odour;
- scale 4 = Strong off-odour;

9. **TOTAL ARSENIC CONENT**

Method Used: EN 645:1994 and analysis by Inductively Coupled Argon Plasma Spectrometer

Sample Identity	Colour / Component	Style
1	Bamboo fiber cup	-

Test Item(s)	Results(mg/kg)
	1
Arsenic	ND

Notes :

- Method detected limit: 0.1 mg/kg
- mg/dm<sup>2</sup> = milligram per square decimeter

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