

## Test Report

No. CANEC2018893603

Date: 18 Nov 2020

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DONGGAUN ZHI BEN ENVIRONMENTAL PROTECTION TECHNOLOGY CO.,LTD.  
(BUILDING,103,XINTAIYANG IND.CITY)NO.13,XINYANG ROAD,LINCUN,TANGXIA TOWN,DONGGUAN  
CITY,GUANGDONG PROVINCE,CHINA.

The following sample(s) was/were submitted and identified on behalf of the clients as : white pulp cup lid

SGS Job No. : CP20-055046 - SZ  
Date of Sample Received : 29 Oct 2020  
Testing Period : 29 Oct 2020 - 18 Nov 2020  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).



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Result Summary :

Test Requested	Conclusion
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation –Fastness of fluorescent whitened paper and board	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation –Preserving effect	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, 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
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation–Specific migration of Benzophenone and 4-methylbenzophenone	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation–Extractable formaldehyde	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, 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	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation-Extractable Glyoxal	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation – Extractable Primary Aromatic Amine	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation –Azo Dyes content	PASS



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

Ivy Ren

Ivy Ren  
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN20-188936.001	White paper lid	Paper

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation –Fastness of fluorescent whitened paper and board**

Test Method : With reference to EN 648:2018, analysis was performed by UV lamp.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001</u>	<u>Comment</u>
3% Acetic acid (W/V) aqueous solution	4hr(s)	23±2°C	★	Grade 5	PASS
Rectified Olive Oil	30min(s)	100°C	★	Grade 5	PASS

Notes :

1. ★=Grade 5.
2. Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation –Preserving effect**

Test Method : With reference to EN 1104:2018.

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Aspergillus niger ATCC 6275	★	Absent
Bacillus subtilis ATCC 6633	★	Absent
<b>Comment</b>		<b>PASS</b>

Notes :

1. ★= Absence of zone inhibition
2. Absent denotes absence of Antimicrobial constituents.  
Present denotes presence of Antimicrobial constituents .



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**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, 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.  
No.of panelist:6

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Test media	-	Distilled water
Test Temperature (°C)	-	70
Test time (hr)	-	2
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

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation–Specific migration of Benzophenone and 4-methylbenzophenone**

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

**Sample 001**

Simulant Used : Rectified olive oil  
Test Condition : 70 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	4.4
Specific migration of Benzophenone	0.6	mg/kg	0.2	ND
Specific migration of 4-methylbenzophenone	0.2	mg/kg	0.2	ND
<b>Comment</b>				<b>PASS</b>



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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)

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation– Extractable formaldehyde**

Test Method : With reference to BS EN1541:2001 & EN647:1993 (hot water extraction), analysis was performed by UV- Vis.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable formaldehyde	1	mg/dm <sup>2</sup>	0.1	ND
<b>Comment</b>				<b>PASS</b>

Notes :

1. mg/dm<sup>2</sup> = milligram per square decimeter
2. MDL=Method Detection Limit
3. ND = Not Detected(less than MDL)

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, 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**

Test Method : With reference to EN647:1993 (hot water extraction), analysis was performed by ICP-MS and LC-ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable Aluminum	1000	µg/L	100	197
Extractable Cadmium	5	µg/L	2	ND
Extractable Lead	10	µg/L	5	ND
Extractable Chromium (VI)	Absent	mg/dm <sup>2</sup>	0.004	ND
Extractable Chromium (III)	0.004	mg/dm <sup>2</sup>	0.004	ND
<b>Comment</b>				<b>PASS</b>

Notes :

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



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- 3. MDL=Method Detection Limit
- 4. ND = Not Detected(less than MDL)
- 5. Extractable Chromium (III)= Extractable Total Chromium- Extractable Chromium (VI)
- 6. The result of Chromium (VI) and Chromium (III) are considered as "Not Detected" since the total chromium content determined is "Not Detected".

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation-Extractable Glyoxal**

Test Method : With reference to DIN 54603:2008, analysis was performed by UV- Vis.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable Glyoxal	1.5	mg/dm <sup>2</sup>	0.5	ND
<b>Comment</b>				<b>PASS</b>

Notes :

- 1. mg/dm<sup>2</sup> =milligram per square decimeter
- 2. MDL=Method Detection Limit
- 3. ND = Not Detected(less than MDL)

**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation –Extractable Primary Aromatic Amine**

Test Method : With reference to EN 647:1993 (hot water extraction) and BfR Recommendation XXI. Analysis was performed by UV-Vis.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Extractable Primary Aromatic Amine	0.002	mg/kg	0.002	ND
<b>Comment</b>				<b>PASS</b>

Notes :

- 1. mg/kg = milligram per kilogram of foodstuff in contact with
- 2. MDL=Method Detection Limit
- 3. ND = Not Detected



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**Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation –Azo Dyes content**

Test Method : With reference to § 64 LFGB BVL B 82.02.2:2017, analysis was performed by GC-MS/HPLC-DAD.

Determination of 4-aminoazobenzene (CAS No.:60-09-3) with reference to § 64 LFGB BVL B 82.02.15:2017, analysis was performed by GC-MS/HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
					<i>AZO: A</i>	<i>AZO: C</i>
4-Aminobiphenyl	92-67-1	★	mg/kg	5	ND	ND
Benzidine	92-87-5	★	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	★	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	★	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	★	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	★	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	★	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	★	mg/kg	5	ND	ND



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Test Item(s)	CAS NO.	Limit	Unit	MDL	001	
					AZO: A	AZO: C
4,4'-diaminodiphenylmethane	101-77-9	★	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	★	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	★	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	★	mg/kg	5	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane / 4,4'-methylenedi-o-toluidine	838-88-0	★	mg/kg	5	ND	ND
p-cresidine	120-71-8	★	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	★	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	★	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	★	mg/kg	5	ND	ND
o-toluidine	95-53-4	★	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluylenediamine	95-80-7	★	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	★	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	★	mg/kg	5	ND	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>AZO: A</u>	<u>AZO: C</u>
O-Anisidine	90-04-0	★	mg/kg	5	ND	ND	ND
2,4-Xylidine	95-68-1	★	mg/kg	5	ND	ND	ND
2,6-Xylidine	87-62-7	★	mg/kg	5	ND	ND	ND
<b>Comment</b>					<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

### Notes :

1. mg/kg = milligram per kilogram
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)
4. Direct reduction (Method A) refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 Clause 10.1 and relevant clauses.
5. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
6. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
7. § 64 LFGB BVL B 82.02.2:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, § 64 LFGB BVL B 82.02.15: 2017 will be employed to verify the presence of 4-AAB.

★= Prohibited



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