

Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 1 of 13

Applicant: MID OCEAN BRANDS B.V
Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test site: 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

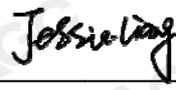
Report on the submitted sample(s) said to be:

Sample Name: Drawstring bag with detachable COB light
Model: MO9970
Vendor Code: 107978
Country of origin: CHINA
Country of destination: EUROPE
Sample Received Date: Jun.08, 2020
Testing Period: Jun.08, 2020 to Jun.12, 2020

Reviewed by: 

Huangguohua

Vice Laboratory Manager

Approved by: 

Liangdan, Jessie.Liang

Technical Director



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Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 2 of 13

Test Requested:

- 1.As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.
- 2.As specified by client, to determine the Lead content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.
- 3.As specified by client, to determine the Cadmium(Cd)content in the Submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.
- 4.As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.
5. As specified by client, to determine Azocolourants and Azodyes in the submitted sample with reference to Entry 43, Annex XVII of the REACH Regulation (EC) No 1907/2006.
6. As specified by client, to determine the color fastness to rubbing of the submitted sample.

Conclusion

Pass

Pass

Pass

Pass

Pass

Pass

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Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 3 of 13

No.	Sample Description		
1.	Lamp shell	Black rubber shell	
2.		Blue plastic shell	
3.		Black rubber button	
4.		Transparent plastic shell	
5.		Transparent sticker	
6.		Silver coating	
7.		Black plastic	
8.	Circuit board	Chip diode	
9.		Patch yellow LED	
10.		Chip white LED	
11.		Hot melt adhesive	
12.		Chip resistor	
13.		Chip triode	
14.		Chip capacitor	
15.		IC body	
16.		Tin plating	
17.		PCB board	
18.		Tin solder	
19.		Metal spring	
20.		switch	Copper switch
21.			Metal shell
22.			Metal shrapnel
23.			Brown tape
24.			White plastic seat

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Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 4 of 13

Test Result:

1.(Test Method/ Instrument/ MDL and Limit: See Appendix)

No.	Test result (mg/kg)										Conclusion
	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
2	N.D.	N.D.	N.D.	N.D.*	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
3	N.D.	N.D.	N.D.	517	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
6	N.D.	N.D.	N.D.	N.D.*	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
11	N.D.	N.D.	N.D.	517	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
16	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
17	N.D.	N.D.	N.D.	300	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
18	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
19	N.D.	N.D.	N.D.	204	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
20	N.D.	N.D.	N.D.	297	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
21	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
22	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
23	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
24	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity

Note:

mg/kg = milligram per kilogram

μg/cm² = microgram per square centimeter

N.D.=Not Detected (less than method detection limit)

N/A= Not applicable

MDL = Method Detection Limit

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Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 5 of 13

Remark:

- *denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, nonuniformity composition, surface flatness.
- This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
1	The sample solution is < the 0,10 µg/cm ² equivalent comparison standard solution	The sample is negative for Cr(VI) – The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is ≥ the 0,10 µg/cm ² and ≤ the 0,13 µg/cm ² equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3	The sample solution is > the 0,13 µg/cm ² equivalent comparison standard solution	The sample is positive for Cr(VI) – The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

- Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.
Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).
Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 6 of 13

Appendix:

Test Item	Test Method/ Instrument	MDL	Limit
X-ray Fluorescence Spectrometry(XRF)			
Lead (Pb)	IEC 62321-3-1:2013 / XRF	200mg/kg	≤1000mg/kg
Cadmium (Cd)		50mg/kg	≤100mg/kg
Mercury (Hg)		200mg/kg	≤1000mg/kg
Total Chromium		200mg/kg	/
Total Bromine		200mg/kg	/
Wet Chemistry Method			
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	10mg/kg	≤1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	10mg/kg	≤100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	10mg/kg	≤1000mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	≤1000mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015/ UV-Vis	0.1μg/cm ²	/
Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum ≤1000mg/kg
Polybrominated Diphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum ≤1000mg/kg
Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	≤1000mg/kg
Dibutyl phthalate (DBP)		50mg/kg	≤1000mg/kg
Butylbenzyl phthalate (BBP)		50mg/kg	≤1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	≤1000mg/kg

Note:

“≤”= Less than or equal to

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Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 7 of 13

2. Test Result(s) of Pb

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)						Limit
			1-1	1-2	1-3	1-4	1-5	1-6	
Lead (Pb)	IEC 62321-5:2013 ICP-OES	5	N.D.	N.D.	N.D.	15	N.D.	N.D.	500
Conclusion		/	Pass	Pass	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. As specified by client, only test the designated sample

3. Test Result(s) of Cd

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)						Limit
			1-1	1-2	1-3	1-4	1-5	1-6	
Cadmium (Cd)	IEC 62321-5:2013 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. As specified by client, only test the designated sample

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Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 8 of 13

4. Test result of phthalates content

Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-5	1-6	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	0.1
Sum of DBP+BBP+DEHP+DIBP		—	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	0.1
Conclusion			/	Pass	Pass

- Note:**
- 0.1%,w/w =1000mg/kg
 - MDL=method detection limit
 - N.D.=not detected (less than method detection limit)
 - “—”=Not regulated
 - As specified by client, only test the designated sample.

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Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 9 of 13

5. Test result of AZO content

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
4-Aminobiphenyl	EN ISO 14362-1:2017 EN ISO 14362-3:2017 GC-MS	5	N.D.	N.D.	N.D.	30
Benzidine		5	N.D.	N.D.	N.D.	30
4-Chloro-o-Toluidine		5	N.D.	N.D.	N.D.	30
2-Naphthylamine		5	N.D.	N.D.	N.D.	30
o-Aminoazotoluene		5	N.D.	N.D.	N.D.	30
5-Nitro-o-toluidine		5	N.D.	N.D.	N.D.	30
4-Chloroaniline		5	N.D.	N.D.	N.D.	30
4-Methoxy-m-phenylenediamine		5	N.D.	N.D.	N.D.	30
4,4'-Diaminodiphenylmethane		5	N.D.	N.D.	N.D.	30
3,3'-Dichlorobenzidine		5	N.D.	N.D.	N.D.	30
3,3'-Dimethoxybenzidine		5	N.D.	N.D.	N.D.	30
3,3'-Dimethylbenzidine		5	N.D.	N.D.	N.D.	30
4,4'-Methylenedi-o-toluidine		5	N.D.	N.D.	N.D.	30
p-Cresidine		5	N.D.	N.D.	N.D.	30
4,4'-Methylene-bis-(2-chloro-aniline)		5	N.D.	N.D.	N.D.	30
4,4'-Oxydianiline		5	N.D.	N.D.	N.D.	30
4,4'-Thiodianiline		5	N.D.	N.D.	N.D.	30
o-Toluidine		5	N.D.	N.D.	N.D.	30
4-Methyl-m-phenylenediamine		5	N.D.	N.D.	N.D.	30
2,4,5-Trimethylaniline		5	N.D.	N.D.	N.D.	30
o-Anisidine		5	N.D.	N.D.	N.D.	30
4-Amino azobenzene		5	N.D.	N.D.	N.D.	30
2,4-Xylidine		5	N.D.	N.D.	N.D.	30
2,6-Xylidine	5	N.D.	N.D.	N.D.	30	
Conclusion		/	Pass	Pass	Pass	/

- Note:**
1. mg/kg= parts per million
 2. MDL = Method Detection Limit
 3. N.D.=Not Detected(less than method detection limit)

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Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 10 of 13

4. As specified by client, only test the designated sample.
5. The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine, therefore, the test method of EN ISO 14362-3:2017 was employed to verify the presence of 4-aminoazobenzene

6. Test Results of Color fastness to rubbing

Item	Test method	Result					Client's requirement
		/	/	1-1	1-3		
Color fastness to rubbing (Grade)	ISO 105-X12-2016	Staining color (Grade)	Cotton	dry	4-5	4-5	≥2-3
				wet	4-5	4-5	≥2-3
Conclusion	/	/	/	/	Pass	Pass	/

Note:

- Color fastness grade: grey scale (5 grade is good, 1 grade is bad).

Sample Description:

1-1	Black cloth bag
1-2	Black and white cloth label
1-3	Black sling
1-4	Metal buckle
1-5	Black rubber frame
1-6	Black rubber band

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Test Report

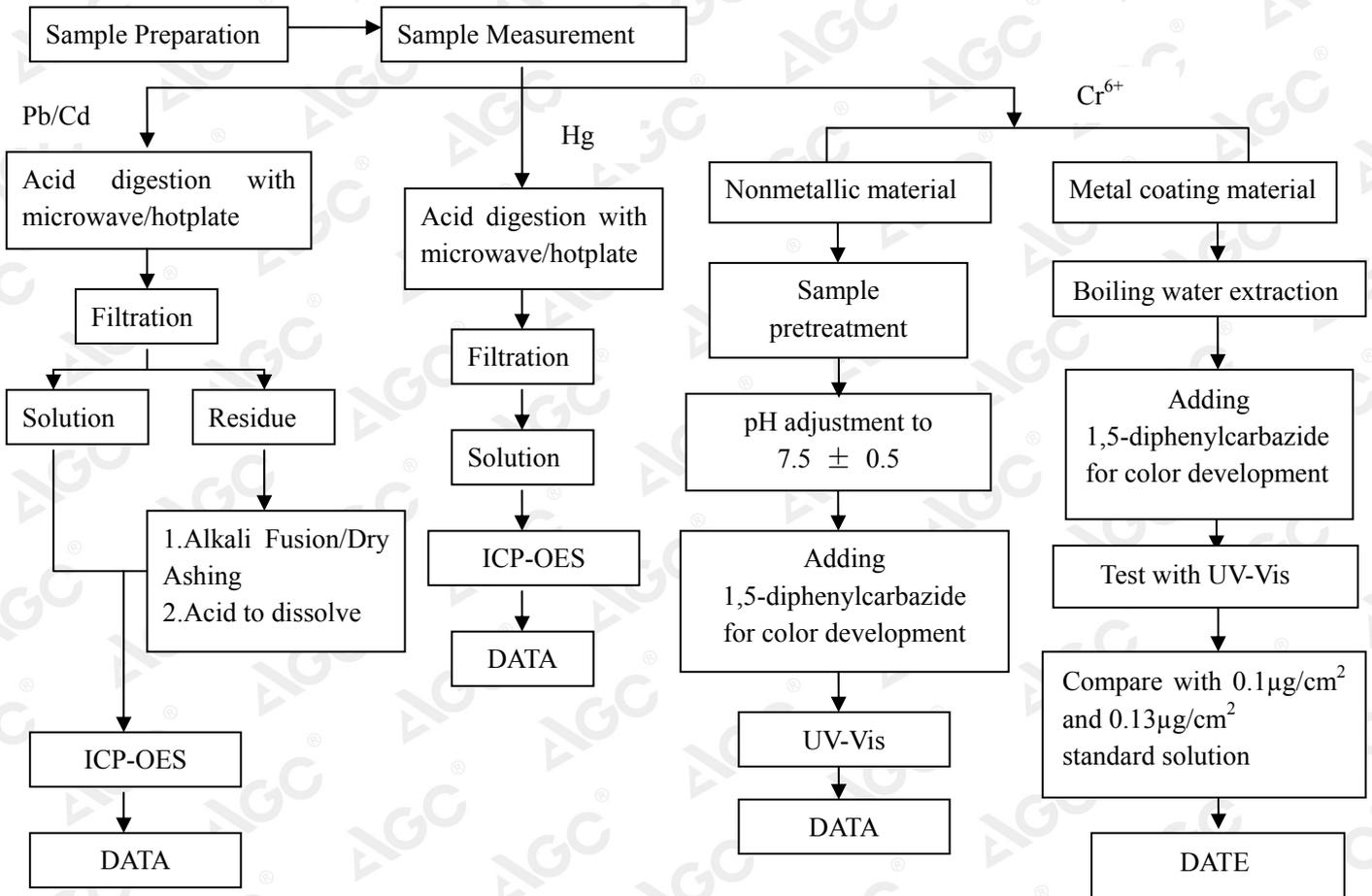
Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 11 of 13

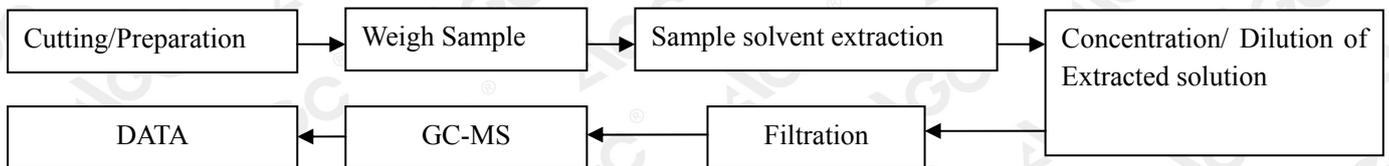
Test Flow Chart

1.For Pb, Cd, Hg, Cr⁶⁺



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr⁶⁺ test method excluded)

2.For PBBs, PBDEs, Phthalates



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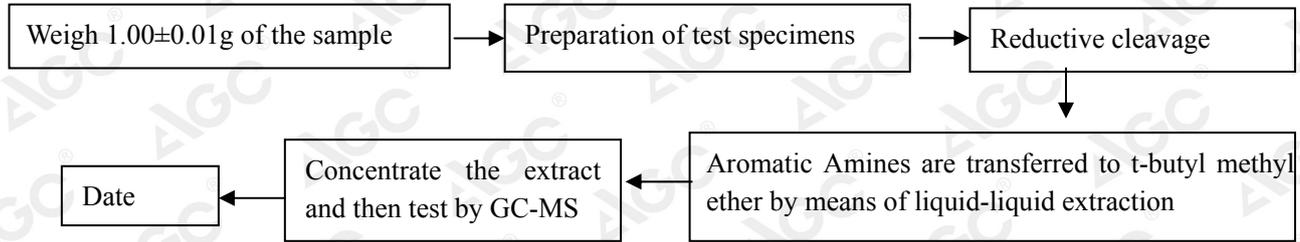
Test Report

Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

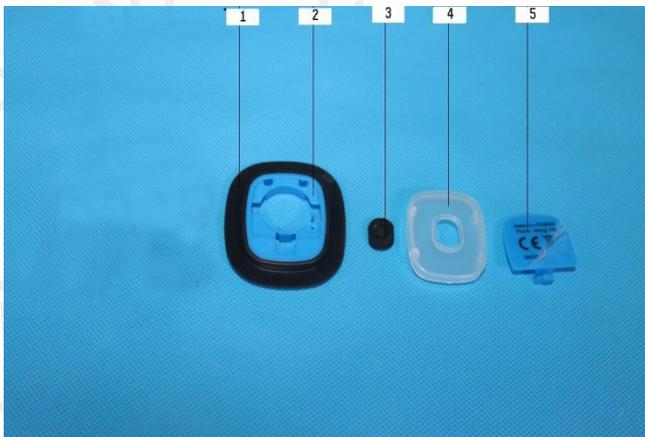
Page 12 of 13

3.For AZO

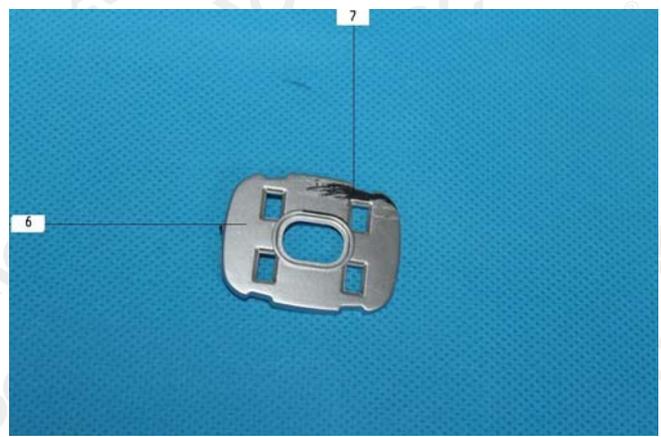


This report is to supersede the report with No.: AGC03507200602-001S1 dated on Jun.15, 2020.

The photo of the sample



1



2

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Attestation of Global Compliance Std. & Tech.

No.18 C

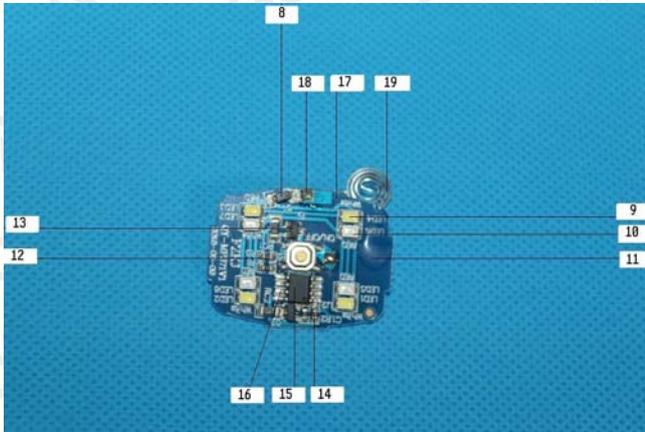
Tel: +86-755 8358 3833 Fax: +86-755 2531 6612 E-mail: agc01@agc-cert.com 400 089 2118
Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

Test Report

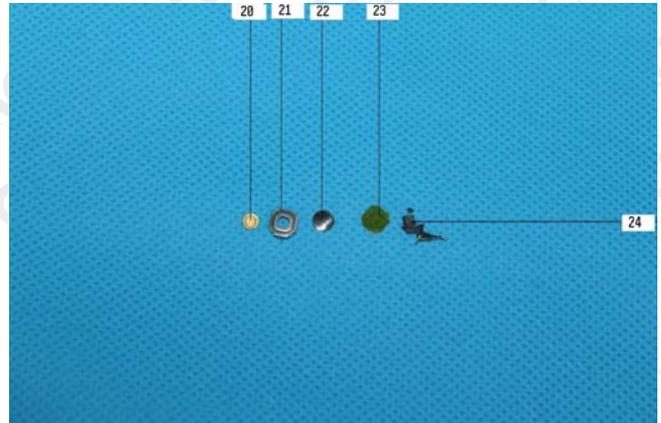
Report No.: AGC03507200602-001S2

Date: Jun.17, 2020

Page 13 of 13



3



4



AGC03507200602-001S2

AGC authenticate the photo only on original report

*** End of Report ***

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Attestation of Global Compliance Std. & Tech.

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Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

No.18 C