



# TEST REPORT

Report No.: STSGZ2403143038E

Date: 10-Apr-2024

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**Applicant:** Mid Ocean Brands B.V.

**Address:** 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

**Sample Name:** Double wall vacuum bottle

**Model/Style/Item #:** MO9431

**Vendor Code:** 107978

**Receiving Date:** 14-Mar-2024,3-Apr-2024

**Test Period:** From 14-Mar-2024 to 9-Apr-2024

**Add Information:** -

## Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Polycyclic-aromatic hydrocarbons (PAHs) content-- Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013	AfPS-GS-2019-01:PAK, determined by GC-MS	PASS
2	Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS
3	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
4	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
5	Formaldehyde - EN 71-9:2005+A1:2007	EN 717-3:1996, analyzed by Spectrophotometer(UV).	PASS
6	Pentachlorophenol (PCP) content - POPs European Regulation (EU) 2019/1021 Annex I	In house method, determined by GC-MS	PASS
7	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS

\*\*\*\*\*Please refer to the following page for detailed results\*\*\*\*\*

Signed for and on behalf of STS

Tim Qi  
(Technical Director)



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#	Test Item(s)	Reference Standard/Method	Result
<b>Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material</b>			
8	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
9	Bisphenol A Contents	In-house Method, determined by LC/MS	<b>PASS</b>
10	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	<b>PASS</b>
<b>French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material</b>			
11	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
12	Peroxide Value	Europe pharmacopoeia,9.0 chapter 2.5.5.	<b>PASS</b>
13	Specific migration of Organotin (as Tin)	EN 13130-1: 2004, determined by ICP-OES	<b>PASS</b>
14	Volatile organic matter	French Arrêté du Novembre 1992 Annex III.	<b>PASS</b>
15	Bisphenol A Contents	In-house Method, determined by LC-MS/MS	<b>PASS</b>
16	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC-MS/MS	<b>PASS</b>
<b>Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9</b>			
17	Extractable Heavy metal	CM/Res(2013)9, determined by ICP-OES and ICP-MS	<b>PASS</b>

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## Result:

1. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013  
AfPS-GS-2019-01:PAK, determined by GC-MS

Compound	Material		Limit (mg/kg)	RL (mg/kg)	
	category I <sup>*1</sup>				
	3	5			
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	1	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	1	0.2
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

Remark: (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)  
1: Material category

Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

Category II : Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

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2. **Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006**  
EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Compound			Material		Limit (%)	RL (%)
			3	5		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	0.1	-
<b>Conclusion</b>			<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than RL)

3. **Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006**  
IEC 62321-5:2013, determined by AAS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		1	2	3	4		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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Compound		Material		Limit (mg/kg)	RL (mg/kg)
		5	6		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	500	10
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

#### 4. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Result(s)		Limit (mg/kg)	RL (mg/kg)
		3	5		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

#### 5. Formaldehyde - EN 71-9:2005+A1:2007 With reference to EN 717-3:1996, analyzed by UV Spectrophotometer (UV).

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		2			
1	Formaldehyde	N.D.		80	10
	<b>Conclusion</b>	<b>PASS</b>		-	-

Remark: (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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## 6. Pentachlorophenol (PCP) content - POPs European Regulation (EU) 2019/1021 Annex I In house method, determined by GC-MS

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		2		
1	Pentachlorophenol(PCP) CAS#87-86-5	N.D.	Not Detected	5
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than RL)  
(c) mg/kg = milligram per kilogram = ppm

## 7. Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003) BS EN 12875-1:2005

After 10 cycles	Sample	7A	7B	7C
	Color <sup>1)</sup>	0	0	0
	Gloss	0	0	0
	Clouding	0	0	0
	Resistant deposits and iridescent layers <sup>2)</sup>	0	0	0
	Other aspects	0	0	0

After 10 cycles	Sample	8A	8B	8C
	Color <sup>1)</sup>	0	0	0
	Gloss	0	0	0
	Clouding	0	0	0
	Resistant deposits and iridescent layers <sup>2)</sup>	0	0	0
	Other aspects	0	0	0

Remark(s): 1).If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.  
2).For the elimination of easily removable deposits.  
3).See photo bar for test photos

Note: Pictures are for reference only. Actual colours of the pictures may vary due to lighting and output process.  
Evaluation of inspection criteria quoted from BS EN 12875-1:2005.

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Classification	Rating
0	No visible change
1	First discernible change
2	Clearly visible change

Requirements quoted from Publicly Available Specification PAS 54: 2003

Articles that are designated "dishwasher resistant", "dishwasher proof", "dishwasher safe" or any other similar description that suggests that the articles can be safely cleaned in a dishwasher shall, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change (Classification 1) but shall not show clearly visible change (Classification 2)

**Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5 - For Silicone Material**

## 8. Overall Migration

EN 1186-1:2002 & EN 1186-3:2022

Test specification		Result(s)	Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		5 <sup>-3rd</sup>		
1	3% Acetic acid, 70°C, 2h	N.D.	10	3
2	50% Ethanol, 70°C, 2h	N.D.	10	3
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 9. Bisphenol A (BPA) content

In-house Method, determined by LC-MS-MS

Test Item		Material	Client's Limit (mg/kg)	RL (mg/kg)
		5		
1	Bisphenol A	N.D.	Not Detected	0.01
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than RL)

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## 10 Specific migration of Bisphenol A DD CEN/TS 13130-13:2005, determined by LC-MS

Test Condition: 3% Acetic acid, 70°C, 2h

Compound	Material		Limit (mg/kg)	RL (mg/kg)
	5 <sup>-3rd</sup>			
1	Bisphenol A (BPA)		0.05	0.01
Conclusion		PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material

## 11. Overall migration EN 1186-1:2002 & EN 1186-3:2022

Test specification	Result(s)		Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
	5 <sup>-3rd</sup>			
1	3% Acetic acid, 70°C, 2h		10	3
2	50% Ethanol, 70°C, 2h		10	3
Conclusion		PASS	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 12. Peroxide Value Europe pharmacopoeia, 9.0 chapter 2.5.5.

Compound	Material		Requirement
	5		
1	Peroxide Value		Negative
Conclusion		PASS	-

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## 13. Specific migration of Organotin(as Tin) EN 13130-1:2004, determined by ICP-OES

Test condition: 3% Acetic acid, 70°C, 2h, Volume to surface area ratio: 167 ml / dm<sup>2</sup>

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		5		
1	Organotin(as Sn)	N.D.	0.1	0.01
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 14. Volatile organic matter French Arrêté du Novembre 1992 Annex III.

Test condition: 200°C, 4h

Compound		Material	Limit (%)	RL (%)
		5		
1	Volatile Compounds	N.D.	0.5	0.1
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit

## 15. Bisphenol A Contents In-house Method, determined by LC-MS/MS

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		5		
1	Bisphenol A	N.D.	Prohibit	0.1
<b>Conclusion</b>		<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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## 16. Specific migration of Bisphenol A DD CEN/TS 13130-13:2005, determined by LC-MS/MS

Test Condition: 3% Acetic acid, 70°C, 2h

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		5-3rd			
1	Bisphenol A (BPA)	N.D.		Prohibit	0.01
<b>Conclusion</b>		<b>PASS</b>		-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9

## 17. Specific Migration of Heavy Metal CM/Res(2013)9, determined by ICP-OES and ICP-MS

Test condition: 0.5% citric acid, First 70°C, 2h, and then 40°C, 24h

Elements		Material		Limit (mg/kg)		RL (mg/kg)	
		1		1st + 2nd	3rd	1st + 2nd	3rd
		1st + 2nd	3rd				
1	Tin (Sn)	N.D.	N.D.	700	100	2	1
2	Copper (Cu)	N.D.	N.D.	28	4	2	1
3	Iron (Fe)	N.D.	N.D.	280	40	2	1
4	Manganese (Mn)	N.D.	N.D.	12.6	1.8	0.2	0.1
5	Zinc (Zn)	N.D.	N.D.	35	5	2	1
6	Aluminum (Al)	N.D.	N.D.	35	5	2	1
7	Barium (Ba)	N.D.	N.D.	8.4	1.2	0.2	0.1
8	Chromium (Cr)	N.D.	N.D.	1.75	0.25	0.1	0.05
9	Nickel (Ni)	N.D.	N.D.	0.98	0.14	0.1	0.05

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10	Lithium (Li)	N.D.	N.D.	0.336	0.048	0.02	0.01
11	Beryllium (Be)	N.D.	N.D.	0.07	0.01	0.002	0.001
12	Vanadium (V)	N.D.	N.D.	0.07	0.01	0.002	0.001
13	Cobalt (Co)	0.003	N.D.	0.14	0.02	0.002	0.001
14	Molybdenum (Mo)	N.D.	N.D.	0.84	0.12	0.02	0.01
15	Silver (Ag)	N.D.	N.D.	0.56	0.08	0.02	0.01
16	Antimony (Sb)	N.D.	N.D.	0.28	0.04	0.02	0.01
17	Lead (Pb)	N.D.	N.D.	0.07	0.01	0.002	0.001
18	Arsenic (As)	N.D.	N.D.	0.014	0.002	0.002	0.001
19	Cadmium (Cd)	N.D.	N.D.	0.035	0.005	0.002	0.001
20	Mercury (Hg)	N.D.	N.D.	0.021	0.003	0.002	0.001
21	Thallium (Tl)	N.D.	N.D.	0.0007	0.0001	0.0002	0.0001
22	Magnesium (Mg)	N.D.	N.D.	-	-	2	1
23	Titanium (Ti)	N.D.	N.D.	-	-	2	1
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-	-	-

Elements	Material	4		Limit (mg/kg)		RL (mg/kg)	
		1st + 2nd	3rd	1st + 2nd	3rd	1st + 2nd	3rd
		1	Tin (Sn)	N.D.	N.D.	700	100
2	Copper (Cu)	N.D.	N.D.	28	4	2	1
3	Iron (Fe)	N.D.	N.D.	280	40	2	1
4	Manganese (Mn)	N.D.	N.D.	12.6	1.8	0.2	0.1
5	Zinc (Zn)	N.D.	N.D.	35	5	2	1
6	Aluminum (Al)	N.D.	N.D.	35	5	2	1

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A301&A401, 3/F.&4/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong, China  
 Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.stsgz.com

e-mail: stsgz@stsapp.com



# TEST REPORT

Report No.: STSGZ2403143038E

Date: 10-Apr-2024

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7	Barium (Ba)	N.D.	N.D.	8.4	1.2	0.2	0.1
8	Chromium (Cr)	N.D.	N.D.	1.75	0.25	0.1	0.05
9	Nickel (Ni)	N.D.	N.D.	0.98	0.14	0.1	0.05
10	Lithium (Li)	N.D.	N.D.	0.336	0.048	0.02	0.01
11	Beryllium (Be)	N.D.	N.D.	0.07	0.01	0.002	0.001
12	Vanadium (V)	N.D.	N.D.	0.07	0.01	0.002	0.001
13	Cobalt (Co)	N.D.	N.D.	0.14	0.02	0.002	0.001
14	Molybdenum (Mo)	N.D.	N.D.	0.84	0.12	0.02	0.01
15	Silver (Ag)	N.D.	N.D.	0.56	0.08	0.02	0.01
16	Antimony (Sb)	N.D.	N.D.	0.28	0.04	0.02	0.01
17	Lead (Pb)	N.D.	N.D.	0.07	0.01	0.002	0.001
18	Arsenic (As)	N.D.	N.D.	0.014	0.002	0.002	0.001
19	Cadmium (Cd)	N.D.	N.D.	0.035	0.005	0.002	0.001
20	Mercury (Hg)	N.D.	N.D.	0.021	0.003	0.002	0.001
21	Thallium (Tl)	N.D.	N.D.	0.0007	0.0001	0.0002	0.0001
22	Magnesium (Mg)	N.D.	N.D.	-	-	2	1
23	Titanium (Ti)	N.D.	N.D.	-	-	2	1
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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## Material List:

Material #	Position / Sample Description	Material
1	Silvery metal,lid	Stainless steel
2	Brown bamboo,lid	Bamboo
3	Dark blue coating,cup	-
4	Silvery metal,bottle	Stainless steel
5	Transparent silicone,seal ring	Silicone
6	Silvery metal,handle	-
7	Article(silvery style)	-
8	Article(blue style)	-

Remark(s): The test material point is selected by client,the chemical test conclusions in the report only apply to the test material.

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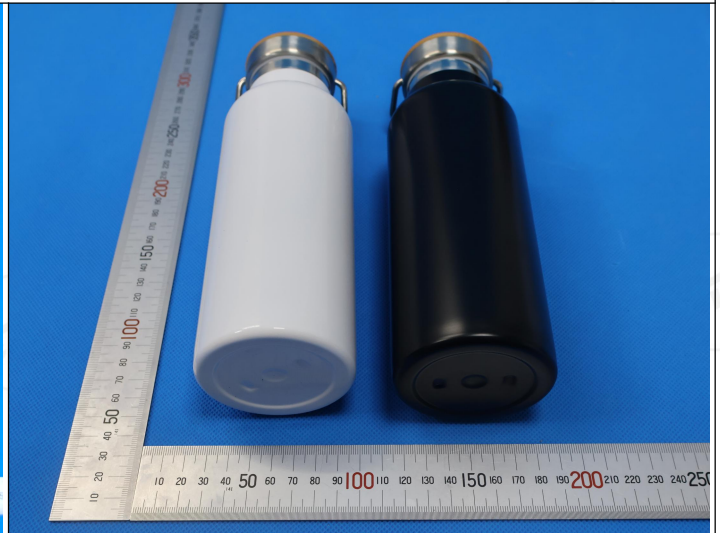
Date: 10-Apr-2024

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## Photo(s):



Test Sample photo



Product Photo

END OF REPORT

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## 声明 Statement

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# 签发测试报告条款

## Conditions of Issuance of Test Reports

1. 广州市德普华检测技术有限公司(以下简称[公司])为提供符合下述条款的测试和报告,而接受有关样品和货品。本公司基于下述条款提供服务,下述条款为本公司与申请服务的个人、企业或公司(以下简称[客户])的协议。

All samples and goods are accepted by the Guangzhou Depuhua Test Services Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
2. 由此测试申请所发出的任何报告(以下简称[报告]),本公司会严格为客户保密。未经本公司的书面同意,报告的整体或部分不得复制,也不得用于广告或授权的其他用途。然而,客户可以将本公司印制的报告或认可的副本,向其客户、供货商或直接相关的其它人出示或提交。除非相关部门、法律或法规要求,否则未经客户同意,本公司不得将报告内容向任何第三方讨论或披露。

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3. 除非相关部门、法律或法院要求,否则未经公司预先书面同意,本公司毋需,也并无义务到法院对有关报告作证。

The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. 除非本公司进行抽样,并已在报告中说明,否则报告中适用于送测的样品(样品信息为客户提供),不适用于批量。

The Report refers only to the tested sample (Sample information is provided by customer) and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
5. 如果本公司确定报告被不当地使用,本公司保留撤回报告的权利,并有权要求其它适当的额外赔偿。

In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. 本公司接受样品进行测试的前提是,该测试报告不能作为针对本公司法律行动的依据。

Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。

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