

Test Report

No.: EM180420004FE001

Date: Apr. 27, 2018

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Applicant

:

Address

:

Sample Name

: Swiss Peak vacuum bottle with mini true wireless earbuds

Model

: SL148, P432.43X

Exporting Country

: EU

Received Date

: Apr. 20, 2018

Test Period

: Apr. 20, 2018 ~ Apr. 27, 2018

Test Requested

- : 1. As requested by client, according to the Regulation (EC) No 1935/2004 and Regulation (EU) No 10/2011 and its amendment (EU) 2016/1416&(EU) 2017/752 and Regulation AP(2004)5, to perform the following tests:
- 1) Overall migration;
 - 2) Specific migration of heavy metal;
 - 3) Specific migration of Primary Aromatic Amines;
 - 4) Bisphenol A (BPA) content.
2. As requested by client, according to the Regulation (EC) No 1935/2004 and EDQM Technical Guide Resolution CM/Res(2013)9, to determine Extractable Heavy Metal in the submitted sample.
3. As requested by client, according to Germany GS Certification and AfPS GS 2014:01 PAK issued by Ausschuss für Produktsicherheit, to determine Polycyclic Aromatic Hydrocarbon (PAHs) content in the submitted sample.

Test Results

: Please refer to next page (s).

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Executive Summary:

STANDARD	CONCLUSION
1. Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU) 2016/1416&(EU) 2017/752 and Regulation AP(2004)5	
1) Overall migration	PASS
2) Specific migration of heavy metal	PASS
3) Specific migration of Primary Aromatic Amines	PASS
4) Bisphenol A (BPA) content	PASS
2. Regulation (EC) No 1935/2004 and EDQM Technical Guide Resolution CM/Res(2013)9 - Extractable Heavy Metal	PASS
3. PAHs content requirement as specified in Germany GS Certification and AfPS GS 2014:01 PAK	SEE DATA

Signed for and on behalf of
EMTEK (Shenzhen) Co., Ltd.

Tested by:



Ray Guo

Test engineer

Reviewed by:



Ezio

Technical supervisor

Approved by:



Jerry

Authorized signatory

Apr. 27, 2018

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Test Item List:

No.	Sample Material	Test Parts	Sample Description
1	Polypropylene	Nesse	Black hard plastic
2	Silicon rubber	Sealing ring	White soft rubber
3	SUS304 stainless	Liner	Silvery metal

Test Results:**1. Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU) 2016/1416&(EU) 2017/752 and Regulation AP(2004)5****1.1 Overall migration:**

Test Method: To refer to EN 1186-1:2002 & EN 1186-3:2002

Test Item(s)	Test condition	Result (mg/dm ²)		MDL (mg/dm ²)	Limit (mg/dm ²)
		1	2		
Overall migration in Water	100°C, 1h	0.9	ND	0.5	10

Note: mg/dm² = milligram per square decimeter
ND = Not Detected (less than MDL)

MDL = Method Detection Limit

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Test Results:

1.2 Specific migration of heavy metal:

Test Method: To refer to the EN 13130-1: 2004, the analysis was performed by ICP-OES.

Test Item(s)	Test condition	Result (mg/kg)	MDL (mg/kg)	Requirement (mg/kg)
		1		
Barium (Ba)	100°C, 1h 3% Acetic Acid	ND	0.1	1
Cobalt (Co)		ND	0.001	0.05
Copper (Cu)		ND	0.01	5
Iron (Fe)		ND	2	48
Lithium (Li)		ND	0.01	0.6
Manganese (Mn)		ND	0.01	0.6
Zinc (Zn)		ND	1	5
Aluminum(Al)		ND	0.1	1
Nickel (Ni)		ND	0.002	0.02

Note: mg/kg = milligram per kilogram = ppm
ND = Not Detected (less than MDL)

MDL = Method Detection Limit

1.3 Specific migration of Primary Aromatic Amines:

Test Method: To refer to the EN 13130-1: 2004, the analysis was performed by GC-MS.

Analyte	Test condition	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
		1		
Primary Aromatic Amines migration	100°C, 1h 3% Acetic Acid	ND	0.01	Non-detectable

Note: mg/kg = milligram per kilogram = ppm
ND = Not Detected (less than MDL)

MDL = Method Detection Limit

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No.	Name	No.	Name
1	4-aminodiphenyl	14	p-cresidine
2	Benzidine	15	4,4'-methylene-bis-(2-chloroaniline)
3	4-chloro-o-toluidine	16	4,4'-oxydianiline
4	2-naphthylamine	17	4,4'-thiodianiline
5	o-aminoazotoluene	18	o-toluidine
6	2-amino-4-nitrotoluene	19	2,4-diaminotoluene
7	p-chloroaniline	20	2,4,5-trimethylaniline
8	2,4-diaminoanisole	21	2-methoxyaniline
9	4,4'-diaminodiphenylmethane	22	4-aminoazobenzene
10	3,3'-dichlorobenzidine	23	2,4-Xylidine
11	3,3'-dimethoxybenzidine	24	2,6-Xylidine
12	3,3'-dimethylbenzidine	25	p-Phenylenediamine
13	3,3'-dimethyl-4,4'-diaminodiphenylmethane	26	Aniline

Test Results:

1.4 Bisphenol A(BPA) content:

Test Method : To refer to US EPA 3550C: 2007, the analysis was performed by LC-MS.

Analyte	Test Result (mg/kg)		MDL (mg/kg)	Requirement (mg/kg)
	1	2		
Bisphenol A(BPA)	ND	ND	0.1	Ban

Note : mg/kg = milligram per kilogram = ppm
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Test Results:

3. Regulation (EC) No 1935/2004 and EDQM Technical Guide Resolution CM/Res(2013)9 - Extractable Heavy Metal:

Test Method: To refer to the EN 13130-1: 2004, the analysis was performed by ICP-MS.

Requirement : The extractable heavy metal of Third shall not exceed SRL and the First+Second shall not exceed 7*SRL for repeated use.

Test Items	Test condition	Result (mg/kg)			MDL (mg/kg)	SRL (mg/kg)
		3				
		First	Second	Third		
Aluminum (Al)	100℃, 1h Artificial tap water	ND	ND	ND	0.2	5
Antimony (Sb)		ND	ND	ND	0.02	0.04
Chromium (Cr)		ND	ND	ND	0.1	0.25
Cobalt (Co)		ND	ND	ND	0.01	0.02
Copper (Cu)		ND	ND	ND	0.1	4
Iron (Fe)		ND	ND	ND	0.25	40
Manganese (Mn)		ND	ND	ND	0.25	1.8
Molybdenum (Mo)		ND	ND	ND	0.02	0.12
Nickel (Ni)		ND	ND	ND	0.05	0.14
Silver (Ag)		ND	ND	ND	0.03	0.08
Tin(Sn)		ND	ND	ND	5	100
Vanadium(V)		ND	ND	ND	0.005	0.01
Zinc (Zn)		ND	ND	ND	1	5
Arsenic(As)		ND	ND	ND	0.001	0.002
Barium (Ba)		ND	ND	ND	0.25	1.2
Beryllium(Be)		ND	ND	ND	0.005	0.01
Cadmium (Cd)		ND	ND	ND	0.002	0.005
Lead (Pb)		ND	ND	ND	0.005	0.01
Lithium (Li)		ND	ND	ND	0.02	0.048
Mercury (Hg)		ND	ND	ND	0.002	0.003
Thallium (Tl)		ND	ND	ND	0.0001	0.0001

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Test Result:
3. PAHs content:

Test Method: To refer to AfPS GS 2014:01 PAK, the analysis was performed by GC-MS.

Analyte	CAS Number	Results (mg/kg)	MDL (mg/kg)
		1	
Naphthalene(NAP)#	91-20-3	ND	0.2
Acenaphthylene(ANY)	208-96-8	ND	0.2
Acenaphthene(ANA)	83-32-9	ND	0.2
Fluorene(FLU)	86-73-7	ND	0.2
Phenanthrene(PHE)	85-01-8	ND	0.2
Anthracene(ANT)	120-12-7	ND	0.2
Fluoranthene(FLT)	206-44-0	ND	0.2
Pyrene(PYR)	129-00-0	ND	0.2
Benzo[a]anthracene(BaA)	56-55-3	ND	0.2
Chrysene(CHR)	218-01-9	ND	0.2
Benzo[b]fluoranthene(BbF)	205-99-2	ND	0.2
Benzo[k]fluoranthene(BkF)	207-08-9	ND	0.2
Benzo[a]pyrene(BaP)	50-32-8	ND	0.2
Indenol[1,2,3-cd]pyrene(IPY)	193-39-5	ND	0.2
Dibenz[a,h]anthracene(DBA)	53-70-3	ND	0.2
Benzo[g,h,i]perylene(BPE)	191-24-2	ND	0.2
Benzo[e]pyren(BeP)	192-97-2	ND	0.2
Benzo[j]fluoranthene(BjF)	205-82-3	ND	0.2
Total of above PAHs (sum)*	-----	ND	-----

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- Note: 1. mg/kg = milligram per kilogram = ppm ND = Not Detected (less than MDL)
MDL = Method Detection Limit
2. “*” = Only those PAH components which present in the material over the 0.2ppm are taken into account while calculating the sum of PAHs
3. “#” = Based on its relative volatility against the other 17 PAH (according to EPA), naphthalene represents a parameter difficult to evaluate in close to skin products. Experience of the testing bodies show that loss of naphthalene as well as secondary contamination can be found. The developed naphthalene result will always only show the momentary situation of the test sample at the time of measurement.

Remark:

Limit of PAH content according to AfPS GS 2014:01 PAK.

Parameter	Category 1	Category 2		Category 3	
	Materials, that are intended to be put into the mouth or materials in toys with intended and prolonged skin-contact (longer than 30 s)	Materials, not covered by category 1, with foreseeable skin-contact of > 30 s (prolonged skin-contact) or short-term repetitive contact with the human skin		Materials, not covered by category 1 or 2, with foreseeable skin-contact of < 30 s (short-term skin contact)	
		Toys according to Toy Directive 2009/48/EC	Other products according to Product Safety Act	Toys according to Toy Directive 2009/48/EC	Other products according to Product Safety Act
NAP	<1mg/kg	<2mg/kg		<10mg/kg	
ANY, ANA, FLU, PHE, ANT, FLT, PYR	Sum<1mg/kg	Sum<5mg/kg	Sum<10mg/kg	Sum<20mg/kg	Sum<50mg/kg
BaA, CHR, BbF, BkF, BaP IPY, DBA, BPE, BeP, BjF	For each substance: <0.2mg/kg	For each substance: <0.2mg/kg	For each substance: <0.5mg/kg	For each substance: <0.5mg/kg	For each substance: <1mg/kg
Sum 18 PAHs (ppm)*	<1 mg/kg	<5mg/kg	<10mg/kg	<20mg/kg	<50mg/kg

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Sample Photos



*** End of Report ***

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