

TEST REPORT

<u>APPLICANT</u>	: Splat planet limited
<u>ADDRESS</u>	: 41 Salisbury Road Watford Herts United Kingdom of Great Britain and Northern Ireland ZIP CODE: WD24 4DT
<u>SAMPLE DESCRIPTION</u>	: UNICORN CYO BOTTLE, DINOSAUR CYO BOTTLE , BUTTERFLIES CYO BOTTLE, SEA LIFE CYO BOTTLE , SAFARI CYO BOTTLE, IRELAND CYO BOTTLE
<u>MODEL NO.</u>	: UNICORN CYO BOTTLE, DINOSAUR CYO BOTTLE , BUTTERFLIES CYO BOTTLE, SEA LIFE CYO BOTTLE , SAFARI CYO BOTTLE, IRELAND CYO BOTTLE
<u>PRODUCT MATERIAL</u>	: PP, Silicone, Aluminum
<u>COUNTRY OF ORIGIN</u>	: China
<u>COUNTRY OF DESTINATION</u>	: EU
<u>SAMPLE RECEIVED DATE</u>	: 03-Apr-2023
<u>FURTHER INFORMATION DATE</u>	: 21-Apr-2023
<u>TURN AROUND TIME</u>	: 03-Apr-2023 to 21-Apr-2023

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	RESULT
Sensorial Examination Odour and Taste Test	Pass
Overall Migration	Pass
Specific Release of Heavy Metals	Pass
Specific Migration of Heavy Metal	Pass
Peroxide Value	Pass
Extractable Component	Pass
Chromium, Vanadium, Zirconium and Hafnium Content	Pass
Specific Migration of Primary Aromatic Amine	Pass

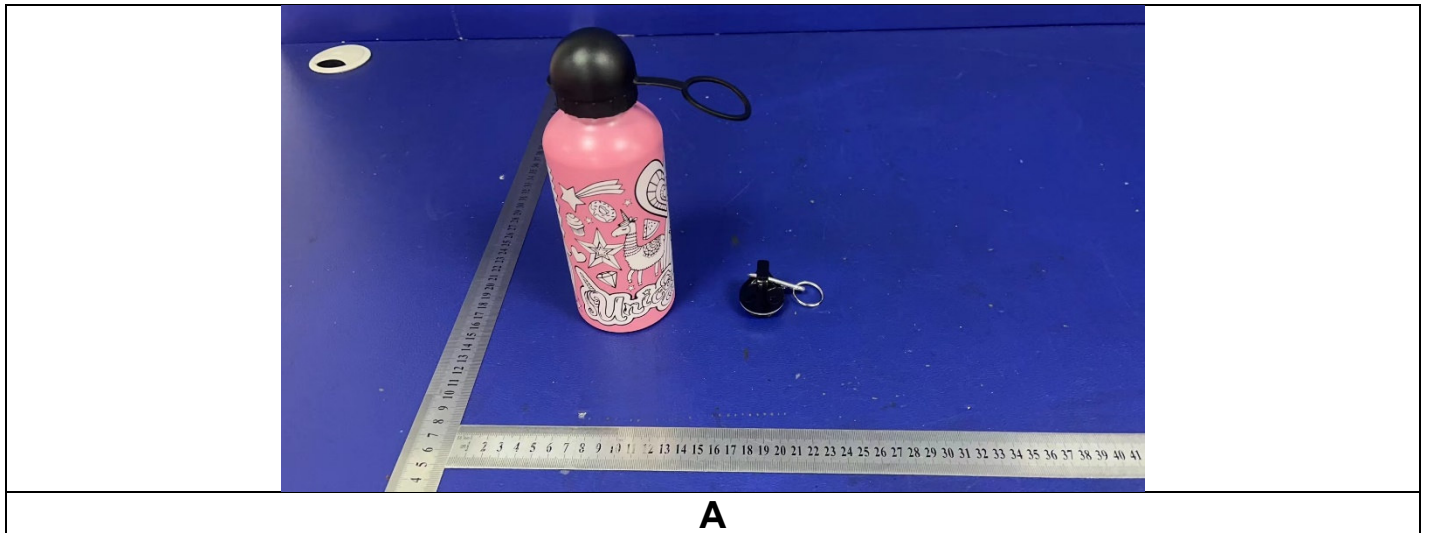
Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.hz@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint@eurofins.com and referring to this report number.

Eurofins (Hangzhou) contact information**Customer service:** NikiFang@eurofins.com/ +86 571 87203730**Sales specialist:** LaraLi@eurofins.com/ +86 571 87203730

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd. Hangzhou BranchSara Liu
lab manager

SAMPLE PHOTO(S)



A

EFHZ23035057-CG-01

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Sample No.
1	Black PP lid	A
2	Semitransparent silicone ring	A
3	Silver aluminum inner wall	A

TO BE CONTINUED

TEST RESULT

Sensorial Examination Odour and Taste Test

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 and BfR recommendation
Sensorial examination odour and taste test

Test Method: Robinson's test with reference to DIN 10955:2004-06
Odour test condition: 23±2°C 24hours
Taste test condition: 70°C 2hours
Test media: Distilled water
No. of panelist: 6

Tested Item(s)	Limit	Result
		A
Sensorial examination odour (Point scale)	2.5	0.0
Sensorial examination taste (Point scale)	2.5	0.0

Remark:

Scale evaluation:

- 0: No perceptible odour
- 1: Odour just perceptible (still difficult to define)
- 2: Moderate odour
- 3: Moderately strong odour
- 4: Strong odour

TO BE CONTINUED

TEST RESULT

Overall Migration

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments.

Test Method: With reference to EN1186-1:2002 for selection of conditions and test methods; EN1186-3:2022 overall migration in evaporable simulants by total immersion method;

Simulant used	Time	Temperature	Max. Permissible Limit	Result		
				1		
				1 st Test	2 nd Test	3 rd Test
3% Acetic Acid (W/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3.0 mg/dm ²	<3.0 mg/dm ²	<3.0 mg/dm ²
10% Ethanol (V/V) Aqueous Solution	2hours	70°C	10 mg/dm ²	<3.0 mg/dm ²	<3.0 mg/dm ²	<3.0 mg/dm ²
95% Ethanol (V/V) Aqueous Solution (Rectified Olive Oil Substitute)	2hours	60°C	10 mg/dm ²	<3.0 mg/dm ²	<3.0 mg/dm ²	<3.0 mg/dm ²
Isooctane (Rectified Olive Oil Substitute)	0.5hour	40°C	10 mg/dm ²	<3.0 mg/dm ²	<3.0 mg/dm ²	<3.0 mg/dm ²

Note:

- (1) mg/dm²=milligram per square decimeter
- (2) °C=degree Celsius
- (3) <= less than
- (4) Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Specific Release of Heavy Metals

Test Request: In accordance with Resolution CM/Res (2013)9 on metals and alloys used in food contact materials and articles.
 Test Method: With reference to Resolution CM/Res(2013)9, analysis was performed by ICP-MS.
 Simulant Used: 0.5% citric acid
 Test Condition: 70°C 2hours

Test Item(s)	Unit	MDL	Result			
			3			
			1 st + 2 nd Migration		3 rd Migration	
			Result	7xSRL ^{*2}	Result	SRL ^{*1}
Aluminum (Al)	mg/kg	0.5	ND	35	ND	5
Antimony (Sb)	mg/kg	0.01	ND	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.05	ND	1.75	ND	0.25
Cobalt (Co)	mg/kg	0.005	ND	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	ND	280	ND	40
Manganese (Mn)	mg/kg	0.2	ND	12.6	ND	1.8
Molybdenum (Mo)	mg/kg	0.01	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.01	ND	0.98	ND	0.14
Silver (Ag)	mg/kg	0.01	ND	0.56	ND	0.08
Tin ^{*3} (Sn)	mg/kg	5	ND	700	ND	100
Vanadium (V)	mg/kg	0.001	ND	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Arsenic (As)	mg/kg	0.0005	ND	0.014	ND	0.002
Barium (Ba)	mg/kg	0.1	ND	8.4	ND	1.2
Beryllium (Be)	mg/kg	0.001	ND	0.07	ND	0.01
Cadmium (Cd)	mg/kg	0.001	ND	0.035	ND	0.005
Lead (Pb)	mg/kg	0.001	0.002	0.07	ND	0.01
Lithium (Li)	mg/kg	0.005	ND	0.336	ND	0.048
Mercury (Hg)	mg/kg	0.0005	ND	0.021	ND	0.003
Thallium (Tl)	mg/kg	0.00005	ND	0.0007	ND	0.0001
Magnesium(Mg)	mg/kg	0.1	ND	-	ND	-
Titanium(Ti)	mg/kg	0.1	ND	-	ND	-

Note:

- (1) mg/kg = milligram per kilogram
- (2) MDL = method detection limit
- (3) ND = not detected (<MDL)
- (4) SRL = Specific Release Limit
- (5) *1 Compliance is established on the result from the third migration test for repeated used articles.
- (6) *2 Meantime, the sum of the results of the first and second tests should not exceed 7 times the SRL
- (7) *3 Except in field of application under Regulation (EC) No.1881/2006.(canned food container)
- (8) Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Specific Migration of Heavy Metal

Test Requested : To determine the Specific Migration of Heavy Metal in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments.

Test Method : With reference to Regulation (EU) 10/2011 for selection of test condition and EN 13130-1:2004 for test preparation method; analysis was performed by ICP-MS.

Simulant used : 3% Acetic Acid (W/V) Aqueous Solution

Test condition : 70°C 2hours

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				1		
				1 st Test	2 nd Test	3 rd Test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium((Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

Remark:

- (1) mg/kg = milligram per kilogram
- (2) MDL = Method Detection Limit
- (3) ND = Not detected, less than MDL
- (4) Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Peroxide Value

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.

Test Method: With reference to European Pharmacopoeia 9.0 part 2.5.5. Peroxide Value method A.

Tested Item(s)	Limit	Result
		2
Peroxide Value	Absent	Absent

Extractable Component

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, BfR recommendation.

Test Method: With reference to 61st Communication on testing of plastics in Bundesgesundheitsbl 46 (2003) 362

Simulant Used	Time	Temperature	Max. Permissible Limit	Result
				2
Deionized Water	5hours	100°C	0.5%(w/w)	<0.1%(w/w)
3% Acetic Acid	5hours	100°C	0.5%(w/w)	<0.1%(w/w)
10% Ethanol	5hours	100°C	0.5%(w/w)	<0.1%(w/w)

Remark:

%w/w =percentage of weight by weight

TO BE CONTINUED

TEST RESULT

Chromium, Vanadium, Zirconium and Hafnium Content

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.

Test Method: Acid digestion, followed by analysis using ICP-OES

Test Item(s)	Unit	Limit	MDL	Result
				1
Total Chromium (Cr)	mg/kg	10	5	ND
Total Vanadium (V)	mg/kg	20	20	ND
Total Zirconium (Zr)	mg/kg	100	20	ND
Total Hafnium (Hf)	mg/kg	100	20	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = not detected (<MDL)

TO BE CONTINUED

TEST RESULT

Specific Migration of Primary Aromatic Amines

Test Request: Specific migration of primary aromatic amines as specified in German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.
 Test Method: With reference to EN 13130-1:2004 for sample preparation, analysis was performed by UV-VIS and LC-MS/MS.
 Simulant Used: Acetic Acid 3%
 Test Condition: 2h at 70°C

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					1		
					1 st	2 nd	3 rd
1,3-phenylenediamine	108-45-2	mg/kg	0.002	0.002	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	0.002	0.002	ND	ND	ND
2-methoxy-5-methylaniline	120-71-8	mg/kg	0.002	0.002	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	0.002	0.002	ND	ND	ND
3,3-dichlorobenzidine	91-94-1	mg/kg	0.002	0.002	ND	ND	ND
3,3-dimethoxybenzidine	119-90-4	mg/kg	0.002	0.002	ND	ND	ND
3,3-dimethylbenzidine	119-93-7	mg/kg	0.002	0.002	ND	ND	ND
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	0.002	0.002	ND	ND	ND
4,4-methylenedianiline	101-77-9	mg/kg	0.002	0.002	0.003	0.002	ND
4,4-methylenendi-o-toluidine	838-88-0	mg/kg	0.002	0.002	ND	ND	ND
4,4-oxydianiline	101-80-4	mg/kg	0.002	0.002	ND	ND	ND
4,4-thiodianiline	139-65-1	mg/kg	0.002	0.002	ND	ND	ND
4-amino-azobenzene	60-09-3	mg/kg	0.002	0.002	ND	ND	ND
4-aminobiphenyl	92-67-1	mg/kg	0.002	0.002	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	0.002	0.002	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	0.002	0.002	ND	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	0.002	0.002	ND	ND	ND
4-methyl-m-phenylenediamine	95-80-7	mg/kg	0.002	0.002	ND	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	0.002	0.002	ND	ND	ND
benzidine	92-87-5	mg/kg	0.002	0.002	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	0.002	0.002	ND	ND	ND
o-anisidine	90-04-0	mg/kg	0.002	0.002	ND	ND	ND
o-toluidine	95-53-4	mg/kg	0.002	0.002	ND	ND	ND
Total of other Primary Aromatic Amines	-	mg/kg	0.01	0.01	ND	ND	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

Total other primary aromatic amines are 1,4-phenylenediamine (CAS No.: 106-50-3), 2,4-dimethylaniline (CAS No.: 95-68-1), 2,6-dimethylaniline (CAS No.: 87-62-7), aniline (CAS No.: 62-53-3).

This test item was subcontracted in Eurofins internal lab.

END OF THE REPORT