



Greater China

Test Report

No.: 70.431.20.13048.01

Dated: 2020-08-14

Applicant: POLYCONCEPT GBS
Address: 4/F., HONGQIAO RONGGUANG BLDG., 11 CHANGSHUN ROAD SHANGHAI, 200051, PR CHINA
Product Name: H2O Eco Base Bottle
Model No.: CB000130 charcoal / CB000131 Blue
Manufacturer: SPS
Country of Origin: UK
Country of Destination: EU
Receipt Date of Sample: 2020-07-21
Date of Testing: 2020-07-21 to 2020-08-14
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
2. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments	Pass
3. Chromium (VI) Content	Pass*
4. EU-Regulation (EU) No. 10/2011-Overall Migration	Pass
5. EU-Regulation (EU) No. 10/2011-Specific Migration of Heavy Metals	Pass
6. EU-Regulation (EU) No. 10/2011-Specific Migration of Phthalates	Pass
7. Specific Migration of Polycyclic Aromatic Hydrocarbons (PAHs)	Pass*
8. EU-Regulation (EU) No. 10/2011-Specific Migration of Primary Aromatic Amine	Pass
9. Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation-Sensory Test	Pass
10. EU-Regulation (EU) No. 10/2011- Phthalates Content	Pass

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. mg/dm² denotes milligram per square decimeter
6. *= Conclusion was drawn according to client's specification.

Test Report

No.: 70.431.20.13048.01

Dated: 2020-08-14



Greater China

TÜV SÜD Certification and Testing (China) Co.,Ltd. Shanghai Branch
Testing Center

Prepared by:

Wu, Jingqing
Technical Engineer



Authorized by:

Sawyer Tang
Technical Manager

Note:

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.
Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.
For further details, please see "Testing and certification regulation", chapter A-3.4
For full version, please visit: <http://www.tuv-sud.cn/cn-scn/terms-and-conditions>
- (2) The results relate only to the Items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) Disclaimer Measurement Uncertainty:
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

Test Report

No.: 70.431.20.13048.01

Dated: 2020-08-14



Greater China

Description of the Tested Subject

Sample	Description	Photo
A	H2O Eco Base Bottle	
B		

Specimen Description

001	Transparent grey plastic
002	Transparent blue plastic

Test Results

1. Total Lead Content Requirement in Annex XVII, Item 63 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to in house method, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002	mg/kg	10	500	<10.0	Pass

2. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test with reference to Acid digestion and EN 1122:2001 Method B, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002	mg/kg	5	<100	<5.0	Pass

3. Chromium (VI) Content

Test with reference to IEC 62321-7-2:2017, analysis was performed by UV-Vis

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002	mg/kg	5	1000	<5	Pass

Remark: 1. Limit was according to client's requirement

Test Report

No.: 70.431.20.13048.01

Dated: 2020-08-14



4. EU-Regulation (EU) No. 10/2011-Overall Migration

- With reference to EN1186-1:2002 for selection of test methods;
EN1186-9:2002 aqueous food simulants by article filling method;
- Sample 001, 002 Migration ratio: 700ml/4.23dm²

Simulant(s) Used	Test Condition	Overall Migration Result(s) [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]	Conclusion
		001*		
3% Acetic acid	70°C for 2 hours	<3.0	10	Pass
50% Ethanol	70°C for 2 hours	<3.0	10	Pass

Simulant(s) Used	Test Condition	Overall Migration Result(s) [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]	Conclusion
		002*		
3% Acetic acid	70°C for 2 hours	<3.0	10	Pass
50% Ethanol	70°C for 2 hours	<3.0	10	Pass

Note: 1. * denotes the data comes from the third extraction solution
2. Test condition and simulant were specified by client

5. EU-Regulation (EU) No. 10/2011-Specific Migration of Heavy Metals

- With reference to EN 13130-1:2004, followed by ICP-MS.
- Test condition: 3% Acetic acid, 40°C for 24 hours
- Sample 001, 002 Migration ratio: 700ml/4.23dm²

Test Item(s)	Result(s) [mg/kg]	Limit [mg/kg]	Conclusion
	001*		
Aluminium	<0.1	1	Pass
Barium	<0.1	1	Pass
Cobalt	<0.05	0.05	Pass
Copper	<0.5	5	Pass
Iron	<1.0	48	Pass
Lithium	<0.1	0.6	Pass
Manganese	<0.05	0.6	Pass
Zinc	<1.0	5	Pass
Nickel	<0.01	0.02	Pass

Test Report

No.: 70.431.20.13048.01

Dated: 2020-08-14



Test Item(s)	Result(s) [mg/kg]	Limit [mg/kg]	Conclusion
	002*		
Aluminium	<0.1	1	Pass
Barium	<0.1	1	Pass
Cobalt	<0.05	0.05	Pass
Copper	<0.5	5	Pass
Iron	<1.0	48	Pass
Lithium	<0.1	0.6	Pass
Manganese	<0.05	0.6	Pass
Zinc	<1.0	5	Pass
Nickel	<0.01	0.02	Pass

- Note:
1. Test condition and simulant were specified by client
 2. * denotes the data comes from the third extraction solution

6. EU-Regulation (EU) No. 10/2011-Specific Migration of Phthalates

- With reference to EN 13130-1:2004, followed by GC-MS
- Test condition: 50% Ethanol, 40°C for 24 hours
- Sample 001, 002 Migration ratio: 700ml/4.23dm²

Test Items	CAS No.	MDL [mg/kg]	Test Result [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
			001*		
Benzylbutyl Phthalate(BBP)	85-68-7	0.1	<0.1	30	Pass
Dibutyl Phthalate(DBP)	84-74-2	0.1	<0.1	0.3	Pass
Di(2-ethylhexyl) phthalate(DEHP)	117-81-7	0.1	<0.1	1.5	Pass
Diisononyl Phthalate(DINP)	68515-48-0	0.1	<0.1	Total 9	Pass
Diisodecyl phthalate(DIDP)	26761-40-0	0.1	<0.1		
Diallyl phthalate(DAP)	131-17-9	0.01	<0.01	0.01	Pass

Test Report

No.: 70.431.20.13048.01

Dated: 2020-08-14



Greater China

Test Items	CAS No.	MDL [mg/kg]	Test Result [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
			002*		
Benzylbutyl Phthalate(BBP)	85-68-7	0.1	<0.1	30	Pass
Dibutyl Phthalate(DBP)	84-74-2	0.1	<0.1	0.3	Pass
Di(2-ethylhexyl) phthalate(DEHP)	117-81-7	0.1	<0.1	1.5	Pass
Diisononyl Phthalate(DINP)	68515-48-0	0.1	<0.1	Total 9	Pass
Diisodecyl phthalate(DIDP)	26761-40-0	0.1	<0.1		
Diallyl phthalate(DAP)	131-17-9	0.01	<0.01	0.01	Pass

- Note:
1. Test condition and simulant were specified by client
 2. * denotes the data comes from the third extraction solution



Test Report

No.: 70.431.20.13048.01

Dated: 2020-08-14



7. Specific Migration of Polycyclic Aromatic Hydrocarbons (PAHs)

- With reference to EN 13130-1:2004, followed by GC-MS
- Test condition: 50% Ethanol, 40°C for 24 hours
- Sample 001, 002 Migration ratio: 700ml/4.23dm²

Compounds	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			001	002
Naphthalene	0.01	ND	ND	ND
Acenaphthylene	0.01	ND	ND	ND
Acenaphthene	0.01	ND	ND	ND
Fluorene	0.01	ND	ND	ND
Phenanthrene	0.01	ND	ND	ND
Anthracene	0.01	ND	ND	ND
Fluoranthene	0.01	ND	ND	ND
Pyrene	0.01	ND	ND	ND
Chrysene	0.01	ND	ND	ND
Benzo[a]anthracene	0.01	ND	ND	ND
Benzo[b]fluoranthene	0.01	ND	ND	ND
Benzo[j]fluoranthene	0.01	ND	ND	ND
Benzo[k]fluoranthene	0.01	ND	ND	ND
Benzo[e]pyrene	0.01	ND	ND	ND
Benzo[a]pyrene	0.01	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.01	ND	ND	ND
Dibenzo[ah]anthracene	0.01	ND	ND	ND
Benzo[ghi]perylene	0.01	ND	ND	ND
Conclusion			Pass	Pass

Note: 1. Test condition and simulant were specified by client
2. Limit was according to client's requirement

8. EU-Regulation (EU) No. 10/2011-Specific Migration of Primary Aromatic Amine

- With reference to EN 13130-1:2004, followed by Kunststoffe im Lebensmittelverkehr, Book 2, Teil B II,XXI
- Test condition: 3% Acetic acid, 40°C for 24 hours
- Sample 001, 002 Migration ratio: 700ml/4.23dm²

Test Item(s)	Result(s) [mg/kg]	Method Detection Limit [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
	001			
Specific migration of primary aromatic amines	ND	0.01	ND	Pass

Test Item(s)	Result(s) [mg/kg]	Method Detection Limit [mg/kg]	Maximum Permissible Limit [mg/kg]	Conclusion
	002			
Specific migration of primary aromatic amines	ND	0.01	ND	Pass

Note: 1. Test condition and simulant were specified by client

9. Germany-German Food & Feed Acts LFGB Section 31 and BfR Recommendation-Sensory Test

- With reference to DIN 10955:2004
- Test condition: Distilled water, 40°C for 24 hours

Sample(s)	Testing Parameter	Grading result(s)	Recommended level	Conclusion
A	Transfer of taste	1	<3	Pass
	Transfer of smell	1	<3	Pass
B	Transfer of taste	1	<3	Pass
	Transfer of smell	1	<3	Pass

Note: Available grading are listed as follow:
 Grading 0: No perceptible taste/smell deviation
 1: Just perceptible taste/smell deviation
 2: Weak taste/smell deviation
 3: Clear taste/smell deviation
 4: Strong taste/smell deviation

Test Report

No.: 70.431.20.13048.01

Dated: 2020-08-14



10. EU-Regulation (EU) No. 10/2011- Phthalates Content

Test with reference to Solvent extraction, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Result(s) [%]	Maximum Permissible Limit [%]	Conclusion
		001+002		
Dibutyl phthalate (DBP)	84-74-2	<0.005	0.05	Pass
Benzylbutyl phthalate (BBP)	85-68-7	<0.005	0.1	Pass
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<0.005	0.1	Pass
Diisononyl phthalate (DINP)	28553-12-0 /68515-48-0	<0.005	0.1	Pass
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	<0.005	0.1	Pass

- End of Test Report -

