

Test Report

Report No.: GNBC240328136R1EN

Issue Date: Jul. 12, 2024

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The following information was/were submitted and identified by/on behalf of the client:

Sample Name : PEN
 Sample Model : 1165
 Sample Receive Date : Mar. 28, 2024
 Sample Testing Period : Mar. 28, 2024 - Apr. 03, 2024
 Test Result Summary:

As requested by the applicant, for details refer to attached page(s).

TEST ITEM(S)	TEST REQUESTED	CONCLUSION(S)
Lead(Pb) content	Entry 63 of Commission Regulation (EU) 2023/923, (EU) 2021/57, (EU) 2015/628 and (EU) No 836/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006	PASS
Lead(Pb) content	US California Proposition 65	PASS
Cadmium(Cd) content	Entry 23 of Commission Regulation (EU) 2016/217, (EU) No 835/2012 and (EU) No 494/2011 amending Annex XVII of REACH Regulation (EC) No 1907/2006	PASS
Cadmium(Cd) content	US California Proposition 65	PASS
Phthalates content	Entry 51 & 52 of Commission Regulation (EU) 2018/2005 and (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006	PASS
Pentachlorophenol(PCP) and its salts and esters	Regulation (EU) 2022/2400 and (EU) 2021/277 amending Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)	PASS

Authorized signature:



Lab Manager: Gavin Zhou



Jul. 12, 2024

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Test Result(s):

Test Part Description:

Part No.	Description
<u>01</u>	Natural color bamboo button
<u>02</u>	Transparent plastic ring
<u>03</u>	White coating
<u>04</u>	Black coating
<u>05</u>	Grey coating (surface of pen clip)
<u>06</u>	Silvery metal pen clip substrate material

1. Lead(Pb) content - REACH Regulation Annex XVII, Entry 63

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 & CPSC-CH-E1003-09.1, Acid digestion and determined by ICP-OES

Part No.	Unit	MDL	Limit	Result(s)	Conclusion(s)
<u>01</u>	mg/kg	10	500	N.D.	PASS
<u>02</u>	mg/kg	10	500	N.D.	PASS
<u>03+04</u>	mg/kg	10	500	N.D.	PASS
<u>05</u>	mg/kg	10	500	N.D.	PASS
<u>06</u>	mg/kg	10	500	N.D.	PASS

Note:

1. 1000mg/kg = 0.1%;
2. MDL = Method Detection Limit;
3. N.D. = Not Detected (<MDL);
4. For sample(s) 03+04, composite test has been performed as per client's request and the test result is the overall result.

2. Lead(Pb) content - US California Proposition 65

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 & CPSC-CH-E1003-09.1, Acid digestion and determined by ICP-OES

Part No.	Unit	MDL	Limit	Result(s)	Conclusion(s)
<u>01</u>	mg/kg	10	100	N.D.	PASS
<u>02</u>	mg/kg	10	100	N.D.	PASS
<u>03+04</u>	mg/kg	10	90	N.D.	PASS

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<u>Part No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>	<u>Conclusion(s)</u>
<u>05</u>	mg/kg	10	90	N.D.	PASS
<u>06</u>	mg/kg	10	100	N.D.	PASS

- Note:**
- 1000mg/kg = 0.1%;
 - MDL = Method Detection Limit;
 - N.D. = Not Detected (<MDL);
 - The limit is referenced to the Consent Judgement No. CIV 1104003 settled in the County of Marin, the conclusion(s) are based on the listed Chemical under California Proposition 65 per client's requirement;
 - For sample(s) 03+04, composite test has been performed as per client's request and the test result is the overall result.

3. Cadmium(Cd) content - REACH Regulation Annex XVII, Entry 23

Test Method: With reference to CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 & CPSC-CH-E1003-09.1, Acid digestion and determined by ICP-OES

<u>Part No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>	<u>Conclusion(s)</u>
<u>01</u>	mg/kg	2	100	N.D.	PASS
<u>02</u>	mg/kg	2	100	N.D.	PASS
<u>03+04</u>	mg/kg	2	1000	N.D.	PASS
<u>05</u>	mg/kg	2	1000	N.D.	PASS
<u>06</u>	mg/kg	2	100	N.D.	PASS

- Note:**
- 1000mg/kg = 0.1%;
 - MDL = Method Detection Limit;
 - N.D. = Not Detected (<MDL);
 - For sample(s) 03+04, composite test has been performed as per client's request and the test result is the overall result.

4. Cadmium(Cd) content - US California Proposition 65

Test Method: With reference to CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 & CPSC-CH-E1003-09.1, Acid digestion and determined by ICP-OES

<u>Part No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>	<u>Conclusion(s)</u>
<u>01</u>	mg/kg	2	300	N.D.	PASS
<u>02</u>	mg/kg	2	300	N.D.	PASS
<u>03+04</u>	mg/kg	2	300	N.D.	PASS
<u>05</u>	mg/kg	2	300	N.D.	PASS

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<u>Part No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>	<u>Conclusion(s)</u>
06	mg/kg	2	300	N.D.	PASS

- Note:**
1. 1000mg/kg = 0.1%;
 2. MDL = Method Detection Limit;
 3. N.D. = Not Detected (<MDL);
 4. The limit is referenced to the Consent Judgement No. RG-10-514803 settled in the County of Alameda, the conclusion(s) are based on the listed Chemical under California Proposition 65 per client's requirement;
 5. For sample(s) 03+04, composite test has been performed as per client's request and the test result is the overall result.

5. Phthalates content - REACH Regulation Annex XVII, Entry 51 & 52

Test Method: With reference to IEC 62321-8:2017, Solvent extraction and determined by GC-MS

For REACH Annex XVII Entry 51, Following phthalates intended for all the materials of toys and childcare articles:

<u>Test Items</u>	<u>CAS No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>	
					02	03+04
Dibutyl phthalate (DBP)	84-74-2	%	0.005	--	N.D.	N.D.
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	--	N.D.	N.D.
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	--	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	84-69-5	%	0.005	--	N.D.	N.D.
Sum of DBP, BBP, DEHP and DIBP	--	%	--	0.1	N.D.	N.D.
Conclusion(s)					PASS	PASS

For REACH Annex XVII Entry 52, Following phthalates intended for materials of toys and childcare articles that can be placed in the mouth:

<u>Test Items</u>	<u>CAS No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>	
					02	03+04
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	--	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	%	0.010	--	N.D.	N.D.
Di-iso-decyl phthalate (DIDP)	26761-40-0/ 68515-49-1	%	0.010	--	N.D.	N.D.
Sum of DNOP, DINP and DIDP	--	%	--	0.1	N.D.	N.D.
Conclusion(s)					PASS	PASS

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- Note:**
1. 0.1% = 1000mg/kg;
 2. MDL = Method Detection Limit;
 3. N.D. = Not Detected (<MDL);
 4. For sample(s) 03+04, composite test has been performed as per client's request and the test result is the overall result.

6. Pentachlorophenol(PCP) and its salts and esters content

Test Method: With reference to PD CEN/TR 14823:2003, Solvent extraction and determined by GC-MS

<u>Substance Name</u>	<u>CAS No.</u>	<u>Unit</u>	<u>Limit</u>	<u>MDL</u>	<u>Result(s)</u>
					<u>01</u>
Pentachlorophenol(PCP) and its salts and esters*	87-86-5 and others	mg/kg	5	0.5	N.D.
<u>Conclusion(s)</u>					PASS

- Note:**
1. 1000mg/kg = 0.1%;
 2. MDL = Method Detection Limit;
 3. N.D. = Not Detected (<MDL);
 4. "*" = Calculated as pentachlorophenol.

Remark: This report replaces the report No.GNBC240328136EN, Date: Aug. 07, 2024.

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Sample Photo(s):



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Below photo(s) was provided by client for photo



GIG authenticate the photo(s) on original report only

End of Report

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