

# Test Report

Report No.: ZRC2210045XY-ROHS-R1

Date: Oct. 19, 2022

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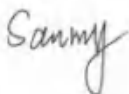
Applicant : Shenzhen Baolujie Bicycle Co., LTD. Dongguan Branch  
Address: 3 / F, Building A, Gongye 3rd Road, Hengjiangxia Village, Changping Town, Dongguan City  
Manufacturer: Shenzhen Baolujie Bicycle Co., LTD. Dongguan Branch  
Address: 3 / F, Building A, Gongye 3rd Road, Hengjiangxia Village, Changping Town, Dongguan City

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

Sample Description : Electric bicycle  
Trademark : BAOLUJIE & GERPSI  
Model No. : BLJ-DZ2001, BLJ-DZ2005, BLJ-DZ-2017, DP-2609, DP-2601, DZ-2003, DP-2610, DZ-2020, DZ-2028, DZ-2026, DS-2606, DS-2607, DP-2608, DP-2614, DZ-2027, DZ-2005, DZ-2021, DZ-2029, DZ-2012, DZ-2603, DP-2610, DZ-2008, DP-2609, DP-2615, DP-2616, DS-2608, DP-2003-1, DP-2003-2, BLJ2029, DZ-2001, DS-1201  
Sample Received Date : Oct. 13, 2022  
Testing Date : Oct. 13, 2022-Oct. 19, 2022  
Test Request : Please refer to next page(s).  
Test Result(s) : Please refer to next page(s).

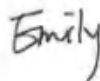
Signed for and on behalf of ZRC International Certification (Shenzhen) Co., Ltd

Prepared by



Sammy Lin  
Engineer

Checked by



Emily Wang  
Supervisor

Approved by



Collin Zhou  
Manager

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**Summary of test results:**

**TEST REQUEST**

**CONCLUSION**

- (1) RoHS Directive 2011/65/EU and its subsequent amendments & Directive (EU) 2015/863  
Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),  
Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs),  
Phthalates (DBP, BBP, DEHP, DIBP)

**PASS**

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## Test Material List

Material No.	Description
1	Silver plastic
2	Orange plastic reflector
3	Black metal
4	Green metal
5	Silver metal
6	Silver metal brake
7	Black plastic seat
7	Black plastic (pedal)
8	Orange plastic(pedal)
9	Black plastic tire
10	Black plastic tire air cap
11	Black plastic handle
12	Black plastic brake handle
13	Black plastic brake line
14	Black plastic (lamp housing)
15	Transparent plastic (lamp housing)
16	LED
17	Battery
18	Power charger

## Test Result(s)

**(1) Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP)**

**Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI))**

Test Method: With reference to IEC 62321-5: 2013, IEC62321-4: 2013+A1:2017, IEC 62321-7-1: 2015 or IEC 62321-7-2: 2017, was analyzed by Ultraviolet-visible Spectrometry (UV-Vis).

No.	EDXRF Result <sup>(1)</sup>					Chemical Result <sup>(2)</sup> (mg/kg)	Remark <sup>(3)</sup>	Conclusion
	Pb	Cd	Hg	Cr	Br			
1	BL	BL	BL	BL	BL	--	--	Pass

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2	BL	BL	BL	BL	BL	--	--	Pass
3	BL	BL	BL	BL	NA	--	--	Pass
4	BL	BL	BL	BL	NA	--	--	Pass
5	BL	BL	BL	BL	NA	--	--	Pass
6	BL	BL	BL	BL	NA	--	--	Pass
7	BL	BL	BL	BL	BL	--	--	Pass
8	BL	BL	BL	BL	BL	--	--	Pass
9	BL	BL	BL	BL	BL	--	--	Pass
10	BL	BL	BL	BL	BL	--	--	Pass
11	BL	BL	BL	BL	BL	--	--	Pass
12	BL	BL	BL	BL	BL	--	--	Pass
13	BL	BL	BL	BL	BL	--	--	Pass
14	BL	BL	BL	BL	BL	--	--	Pass
15	BL	BL	BL	BL	BL	--	--	Pass
16	BL	BL	BL	BL	BL	--	--	Pass
17	BL	BL	BL	BL	BL	--	--	Pass
18	BL	BL	BL	BL	BL	--	--	Pass

Remark:

(1) ①Results are obtained by EDXRF for primary screening, and further wet chemical testing by ICP-OES (for Cd,Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).

③The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$L \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Units and limits in EU RoHS Directive 2011/65/EU:

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
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Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	100	1000	1000	1000	1000

(2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than RL).

② Unit and RL (Report limit) in wet chemical test.

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	2	2	2	2	5	5

③ According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test.

(3) This column represents the exempted decoration of material or other related testing sample's information.

## (2) Phthalates (DBP, BBP, DEHP, DIBP) content

Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic-mass spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	30	30	30	30	
Material No.	Result (mg/kg)				
1	N.D.	N.D.	N.D.	N.D.	PASS
2	N.D.	N.D.	N.D.	N.D.	PASS
7	N.D.	N.D.	N.D.	N.D.	PASS
8	N.D.	N.D.	N.D.	N.D.	PASS
9	N.D.	N.D.	N.D.	N.D.	PASS
10	N.D.	N.D.	N.D.	N.D.	PASS
11	N.D.	N.D.	N.D.	N.D.	PASS
12	N.D.	N.D.	N.D.	N.D.	PASS
13	N.D.	N.D.	N.D.	N.D.	PASS
14	N.D.	N.D.	N.D.	N.D.	PASS

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15	N.D.	N.D.	N.D.	N.D.	PASS
16	N.D.	N.D.	N.D.	N.D.	PASS
17	N.D.	N.D.	N.D.	N.D.	PASS
18	N.D.	N.D.	N.D.	N.D.	PASS

- Note:** 1. mg/kg = milligram per kilogram (ppm).  
2. RL = report limit.  
3. N.D.=not detected(less than RL).

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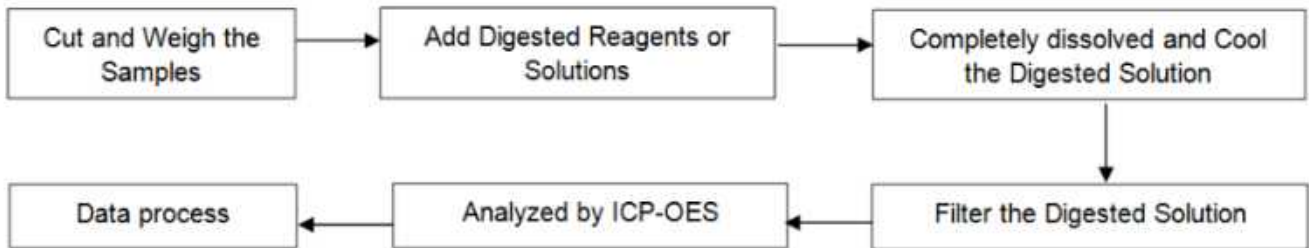
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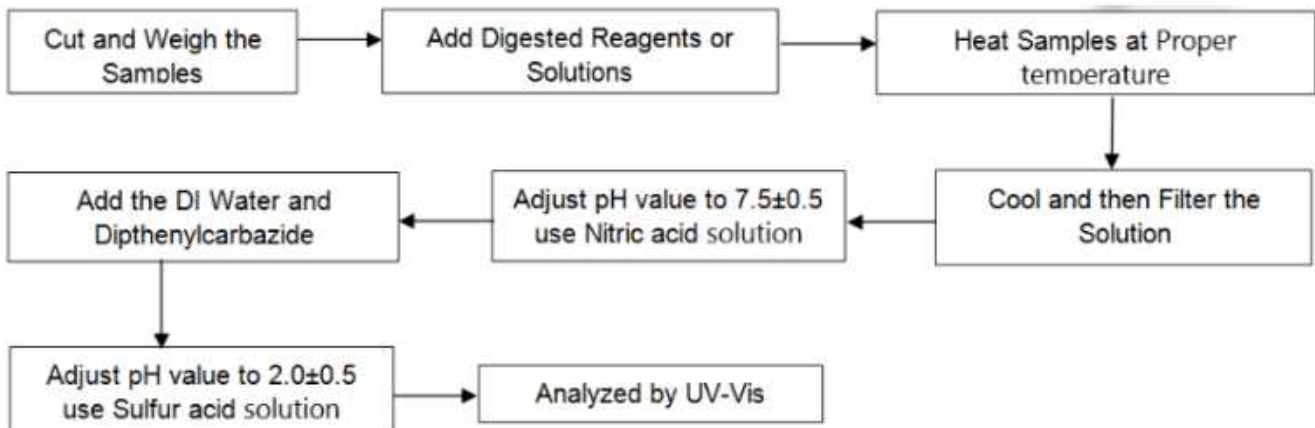
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## Test Process Flow

### 1. Lead, Cadmium, Mercury



### 2. Hexavalent Chromium (Non-metal)



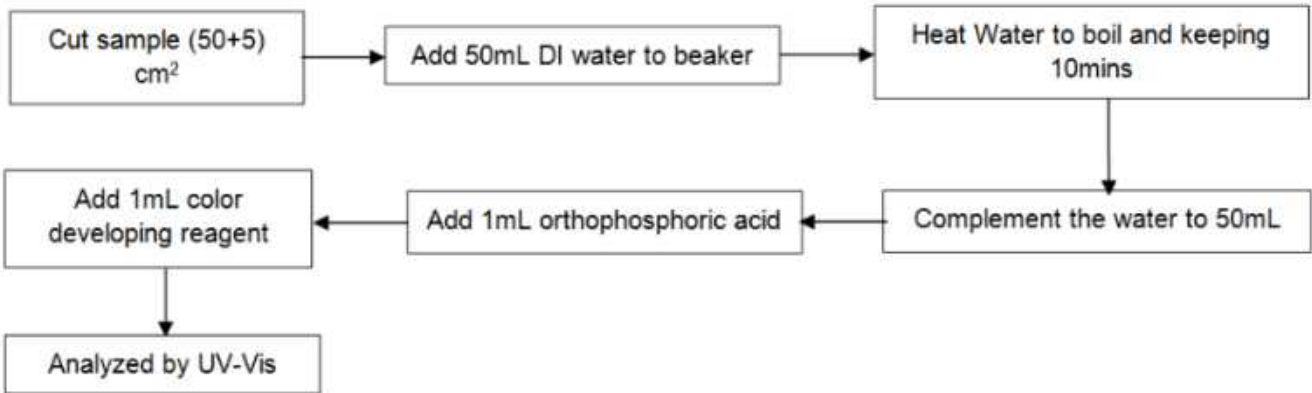
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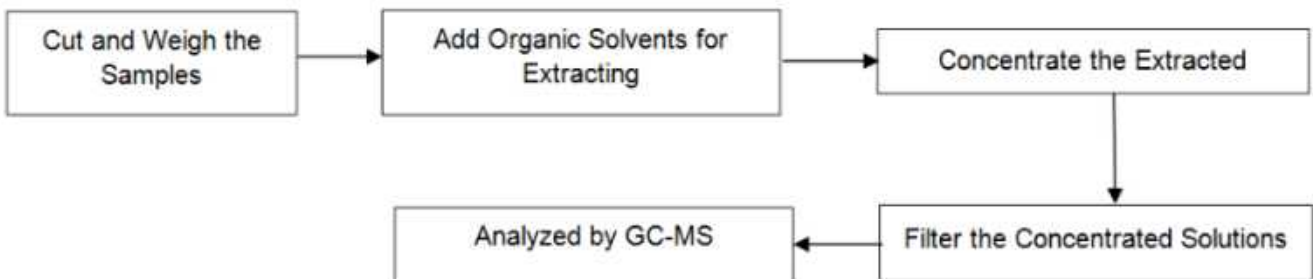
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## Hexavalent Chromium (Metal)



## 3. PBBs & PBDEs, Phthalates



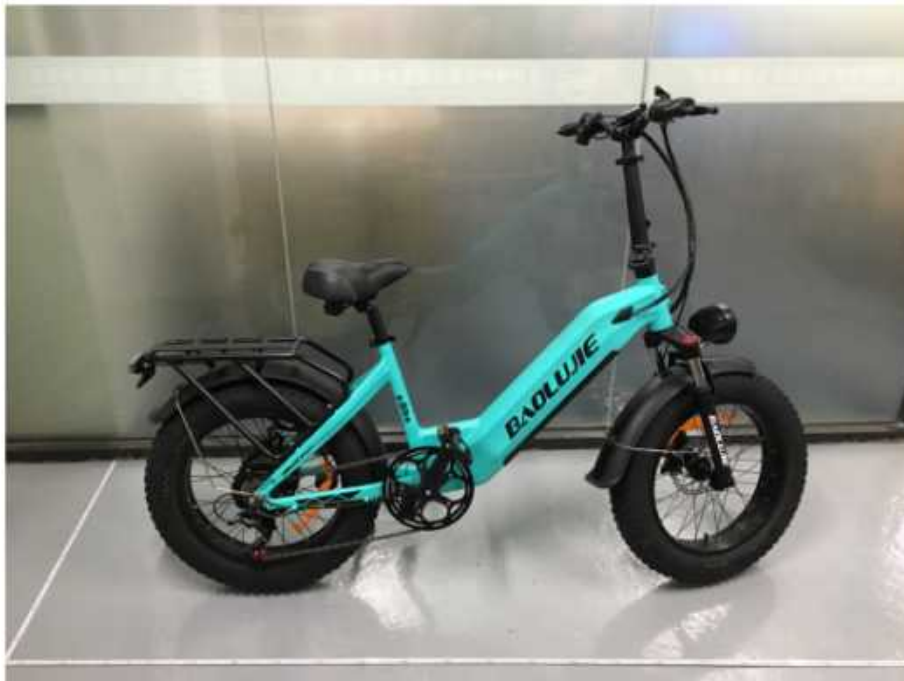
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Photo(s) of Sample:



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