



Test Report

Report No.: SFT21110226023E

Date: Nov.06, 2021

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Applicant: Shenzhen Goldenlux Co.,Ltd

Address: 3/F Building 1, Bei Fang Yong Industrial Area, Shajing Town, Bao'an District, Shenzhen, China

The following merchandise was (were) submitted and identified by client as:

Sample Name: LED High Bay

Model No.: GL-UFO80-P, GL-UFO100-P, GL-UFO120-P, GL-UFO150-P, GL-UFO180-P, GL-UFO200-P

Test Period: From Nov.02, 2021 to Nov.06, 2021

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Heavy Metals , Flame Retardants and Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863	PASS

Test Result(s): Please refer to next page(s).

Signed for and on Behalf of SFT



Jack Zhong / Technical Manager
Guangdong Safety Testing Co., Ltd.

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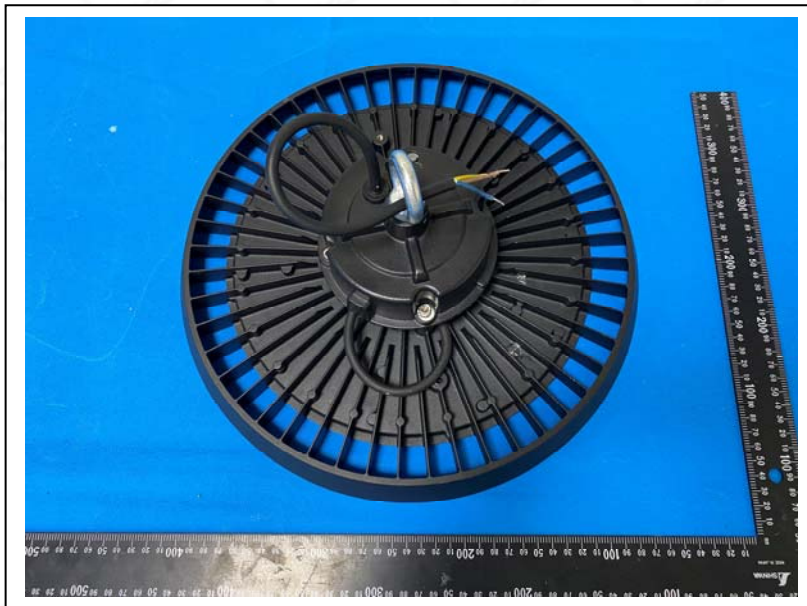
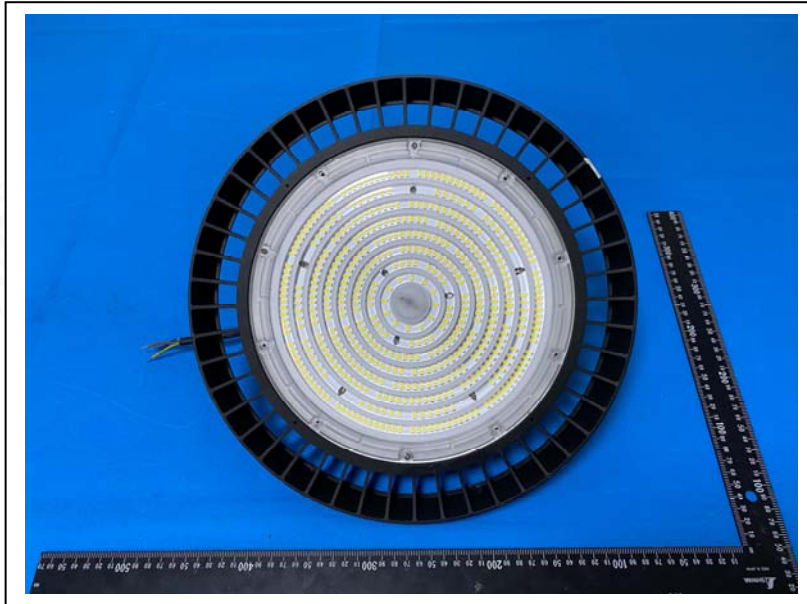
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Photo of the Submitted Sample



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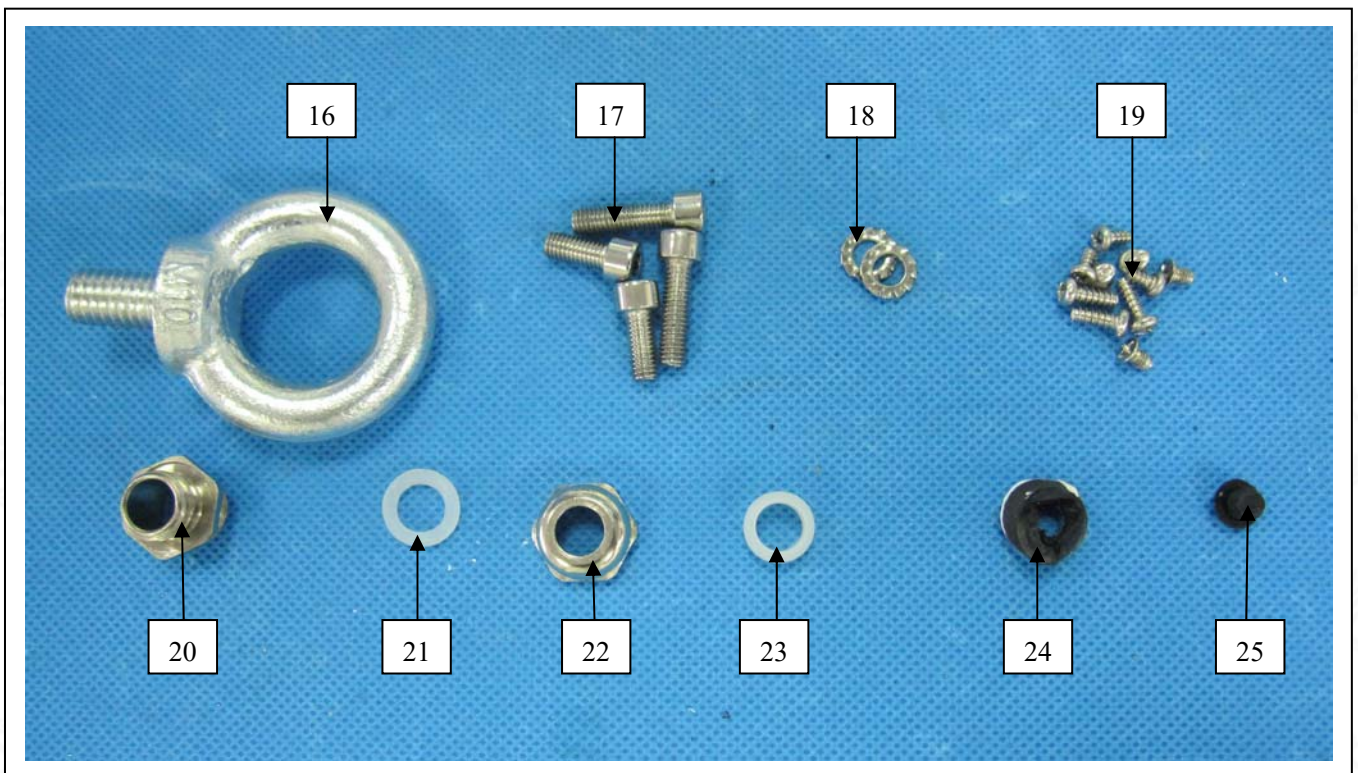
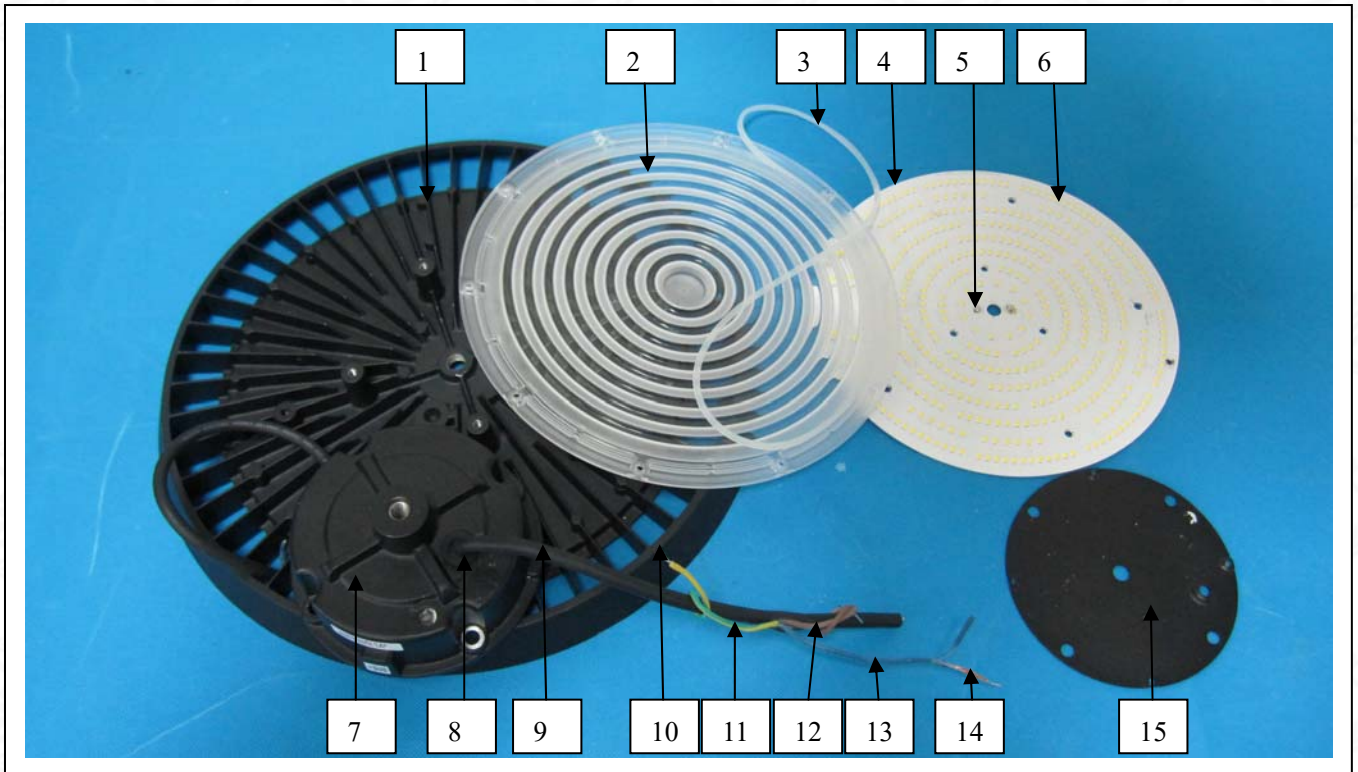


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<u>Test Item(s)</u>	<u>Component Description(s)</u>	<u>Style</u>
1	Silver metal with black coating	-
2	Transparent plastic	-
3	White soft plastic	-
4	Silver metal with white coating	-
5	Silver solder tin	-
6	LED	-
7	Silver metal with black coating	-
8	Black soft plastic	-
9	Black soft plastic wire jacket with white printing	-
10	Silver metal	-
11	Yellow/green soft plastic wire jacket	-
12	Brown soft plastic wire jacket	-
13	Blue soft plastic wire jacket	-
14	Copper wire	-
15	Silver metal with black coating	-
16	Silver metal	-
17	Silver metal	-
18	Silver metal	-
19	Silver metal	-
20	Silver metal	-
21	White soft plastic	-
22	Silver metal	-
23	White soft plastic	-
24	Black soft plastic	-
25	Black soft plastic	-

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Test Result(s):

Heavy Metals , Flame Retardants Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

Test Method:	See Appendix.
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See Analytes and their corresponding Maximum Allowable Limit in Appendix

Parameter	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	PBBs	PBDEs	Conclusion
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	-	-	-	-	-	-	-
1	ND	ND	ND	ND	NA	NA	PASS
2	ND	ND	ND	ND	ND	ND	PASS
3	ND	ND	ND	ND	ND	ND	PASS
4	ND	ND	ND	ND	NA	NA	PASS
5	ND	ND	ND	ND	NA	NA	PASS
6	ND	ND	ND	ND	ND	ND	PASS
7	ND	ND	ND	ND	NA	NA	PASS
8	ND	ND	ND	ND	ND	ND	PASS
9	ND	ND	ND	ND	ND	ND	PASS
10	ND	ND	ND	ND	NA	NA	PASS
11	ND	ND	ND	ND	ND	ND	PASS
12	ND	ND	ND	ND	ND	ND	PASS
13	ND	ND	ND	ND	ND	ND	PASS
14	ND	ND	ND	ND	NA	NA	PASS
15	ND	ND	ND	ND	NA	NA	PASS
16	ND	ND	ND	ND	NA	NA	PASS
17	ND	ND	ND	Negative*	NA	NA	PASS
18	ND	ND	ND	Negative*	NA	NA	PASS
19	ND	ND	ND	Negative*	NA	NA	PASS
20	21003#	ND	ND	ND	NA	NA	EX-EMPTED
21	ND	ND	ND	ND	ND	ND	PASS
22	21600#	ND	ND	ND	NA	NA	EX-EMPTED
23	ND	ND	ND	ND	ND	ND	PASS
24	ND	ND	ND	ND	ND	ND	PASS
25	ND	ND	ND	ND	ND	ND	PASS

Note / Key:

ND = Not detected
NA= Not applicable
% = percent

Detection Limit : See Appendix.

“>” = Greater than

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

10000 mg/kg = 1 %

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Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

Analyte	Requirement (mg/kg)	Result (mg/kg)		
		Test Item		
		3+9+11	2+13+23	-
Dibutyl phthalate (DBP)	1000	60	110	-
Di-(2-ethyl hexyl) phthalate (DEHP)	1000	ND	ND	-
Benzyl butyl phthalate (BBP)	1000	ND	ND	-
Di-(iso-butyl) phthalate (DIBP)	1000	ND	ND	-
Conclusion		PASS	PASS	-

Note / Key:

ND = Not detected

NA= Not applicable

% = percent

Report Limit: See Appendix.

“>” = Greater than

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

10000 mg/kg = 1 %

Remark:

- The testing approach is listed in table of Appendix.
- * denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, non-uniformity composition, surface flatness.
- Only selected example(s) is (are) indicated on the photograph(s) in Comment.
- According to European Council Directive 2011/65/EU, Article 5 “Adaptation of the Annexes to scientific and technical progress”, exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.
- Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).
- a. The sample is positive for Cr⁶⁺ if the Cr⁶⁺ concentration is greater than 0.13µg/cm², The sample coating is considered to contain Cr⁶⁺.
- b. The sample is negative for Cr⁶⁺ if the Cr⁶⁺ is N.D. (concentration less than 0.10µg/cm²), The coating is considered a non-Cr⁶⁺ based coating.
- c. The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination information on storage conditions and production date of the tested sample is unavailable and thus Cr⁶⁺ results represent status of the sample at the time of testing.
- “#” According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here “Copper alloy containing up to 4 % lead by weight.”. Test Item(s) < 20, 22 > were claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.

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APPENDIX

List of Analytes and their Corresponding Test Methods, Detection Limit and Maximum Allowable Limit [for European Council Directive 2011/65/EU&(EU) 2015/863] :

No.	Name of Analytes	Report Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF) ^[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10 ^[b]	1000
2	Cadmium (Cd)	50	50	50	10 ^[b]	100
3	Mercury (Hg)	100	200	200	10 ^[c]	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	10 ^[d] / See ^[e]	1000 / Negative
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50 ^[f]	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50 ^[f]	Sum 1000
9	Dibutyl phthalate (DBP) Di-(2-ethyl hexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Di-(iso-butyl) phthalate (DIBP)	NA	NA	NA	Each 50 ^[g]	Each 1000

NA = Not applicable

[a] Test method with reference to IEC 62321-3-1:2013.

[b] Test method with reference to IEC 62321-5:2013.

[c] Test method with reference to IEC 62321-4:2013.

[d] Polymers and Electronic-Test method with reference to European standard IEC 62321-7-2:2017.

[e] Metal-Test method with reference to European standard IEC 62321-7-1:2015.

[f] Test method with reference to European standard IEC 62321-6: 2015.

[g] Test method with reference to IEC 62321-8:2017.

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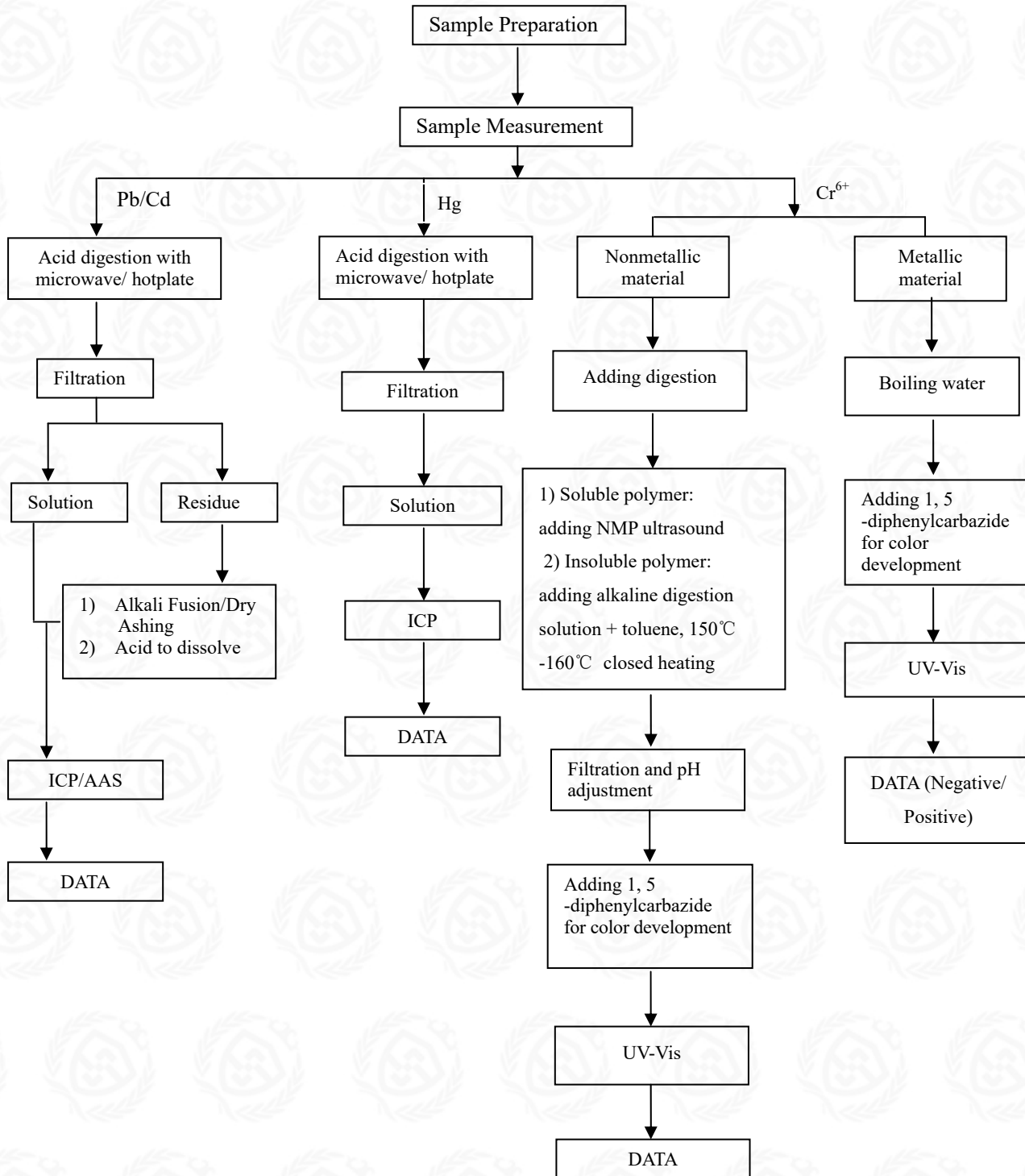
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Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart



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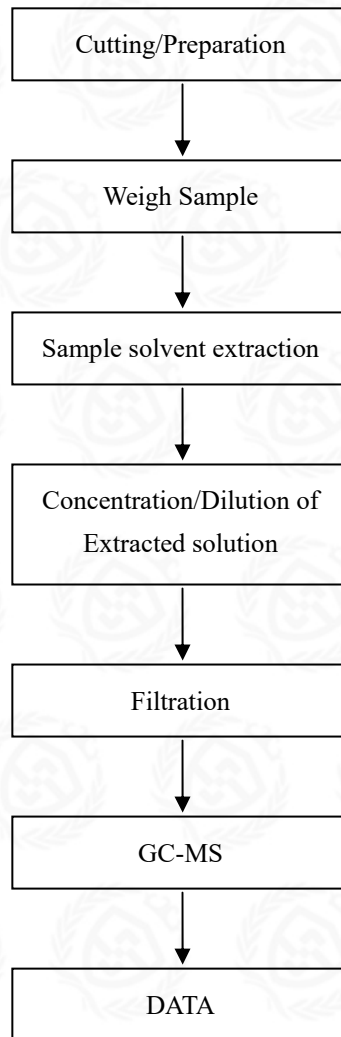
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PBBs/PBDEs Testing Flow Chart



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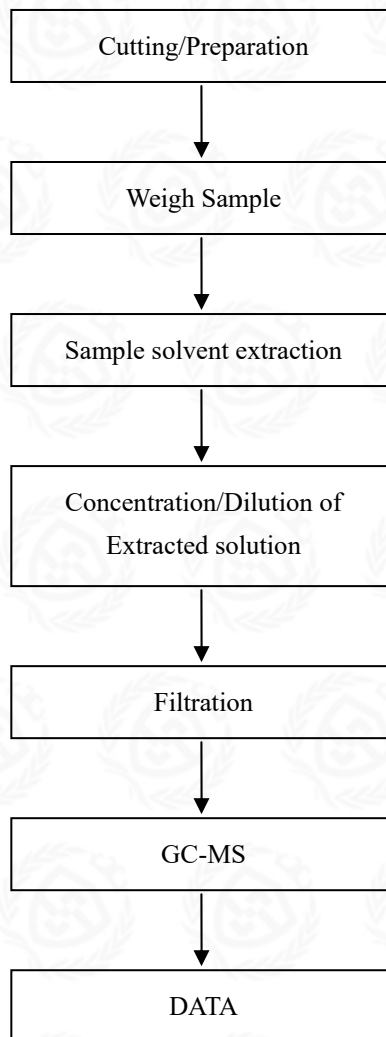
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Phthalates Testing Flow Chart



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