



中国认可
国际互认
检测
TESTING
CNAS L5541



Test Report

Report No. A2190029046101001

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Applicant GOLD EAST PAPER(JIANGSU) CO.,LTD
Address 8 XING GANG EAST ROAD.,DA GANG, ZHENJIANG, JIANGSU,CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name ART PAPER
Sample Received Date Feb. 20, 2019
Testing Period Feb. 20, 2019 to Feb. 25, 2019

TEST REQUEST

CONCLUSION

- | | |
|--|-------------------|
| 1.US Toxics in Packaging Clearinghouse (TPCH) with 2008 revisions | |
| - Heavy metals (Pb, Cd, Hg & Cr ⁶⁺) in packaging and packaging waste | PASS |
| 2. As specified by client and 94/62/EC*, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)) in the submitted sample(s). | PASS ¹ |
| 3.As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s). | / |
- *94/62/EC is the Directive on packaging and packaging waste, which focuses on restriction of the use of certain hazardous substances Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI))in packaging materials.
Pass¹ means that the results shown on the report comply with the limits set by Directive 94/62/EC.

Tested by Ge Xiaobian Reviewed by Summer Xu
Approved by Chen Kaimin Date Feb. 25, 2019
Chen kaimin
Lab Manager



No. R293039767
No. 1996, Xinjinqiao Road, Pudong New District, Shanghai,China

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1.1 US Toxics in Packaging Clearinghouse (TPCH) with 2008 revisions

▼ Heavy metals in packaging and packaging waste

Method(s) US EPA 3050B:1996*, US EPA 3052:1996* and US EPA 3060A:1996* was/were used, and the item(s) was/were analyzed by ICP-OES and UV-Vis.

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL(mg/kg)</u>	<u>Limit(mg/kg)</u>
Total Lead (Pb)	N.D.	5	--
Total Cadmium (Cd)	N.D.	5	--
Total Mercury (Hg)	N.D.	5	--
Hexavalent-Chromium (Cr ⁶⁺)	N.D.	5	--
Total (Pb + Cd + Hg + Cr ⁶⁺)	N.D.	--	100

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

Tested Sample/Part Description White paper

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2.1 Test Method

Tested Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/ or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES

2.2 Test Result(s)

Tested Item(s)	Result	MDL	Limit of Directive of 94/62/EC
Lead (Pb)	N.D.	2 mg/kg	Total content(Lead + Cadmium + Mercury + Hexavalent Chromium) < 100 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	
Mercury (Hg)	N.D.	2 mg/kg	
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	

Tested Sample/Part Description White paper

Remark: The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

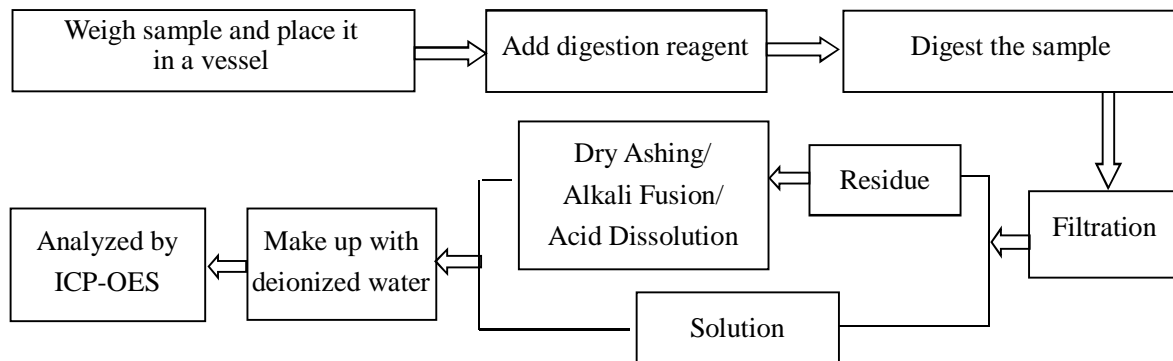
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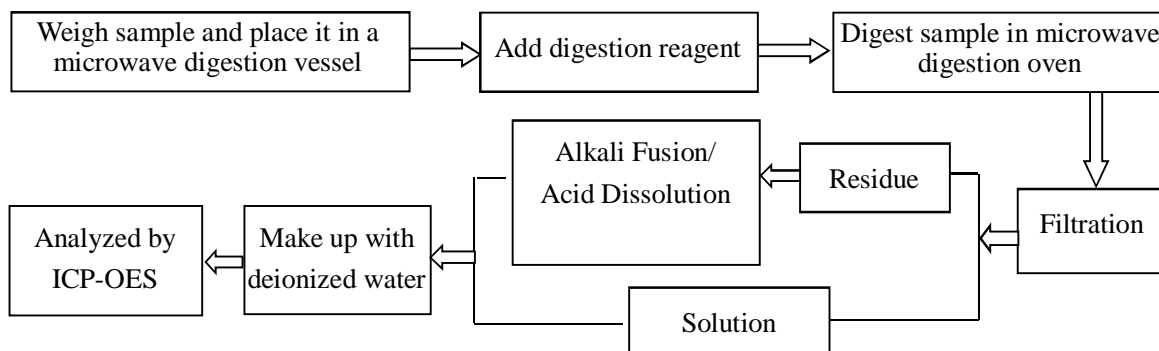
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2.3 Test Process

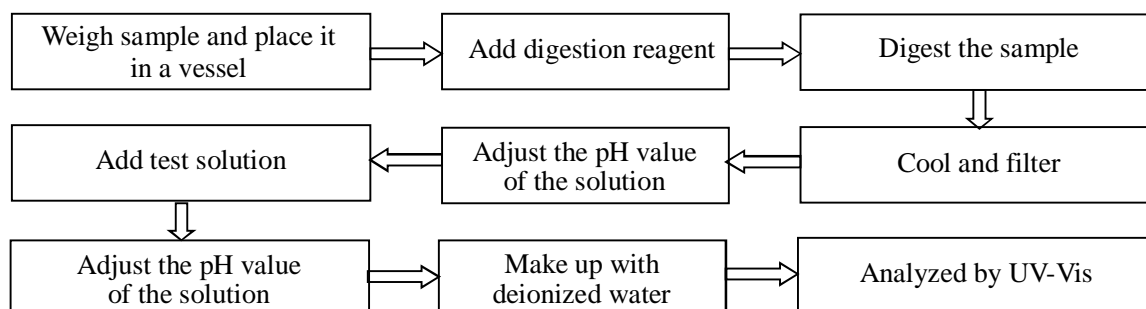
2.3.1. Lead(Pb), Cadmium(Cd) , Chromium(Cr)



2.3.2. Mercury(Hg)



2.3.3. Hexavalent Chromium (Cr(VI))



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3.1 Test Method

Tested Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

3.2 Test Result(s)

Tested Item(s)	Result	MDL
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

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Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Tested Sample/Part Description White paper

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

Note: "*" indicates the method(s) is (are) not in CNAS accreditation scope.

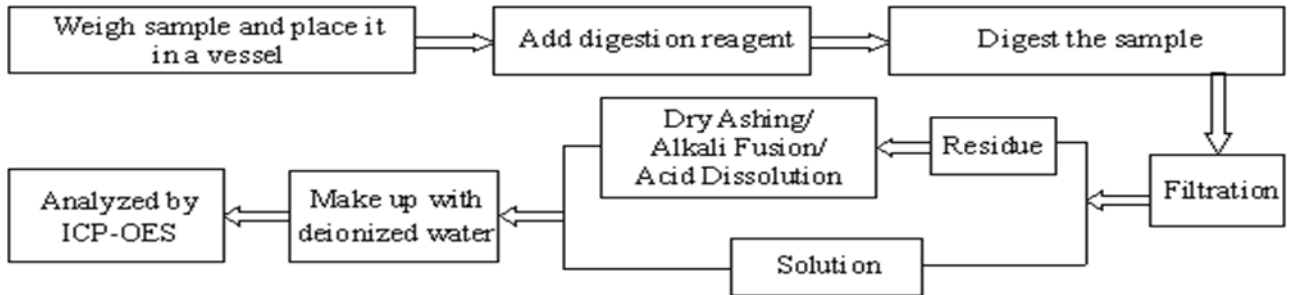
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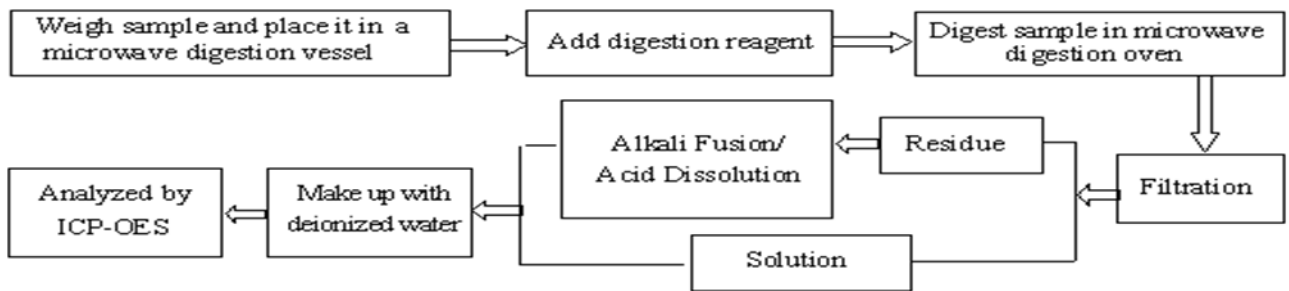
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3.3 Test Process

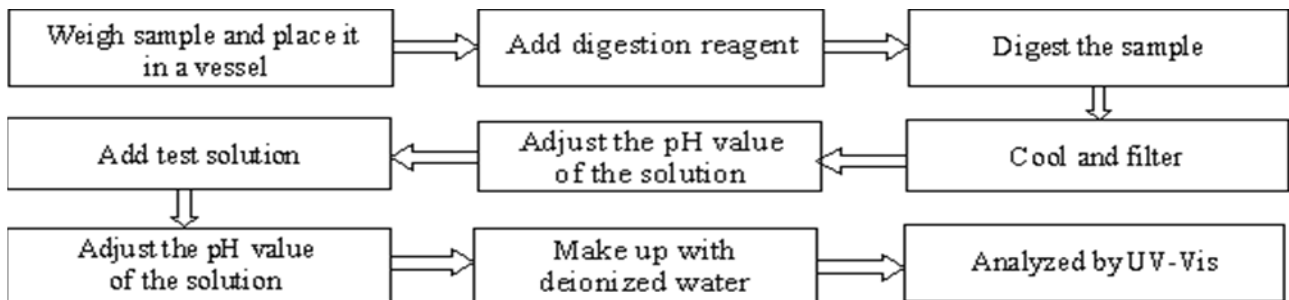
3.3.1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



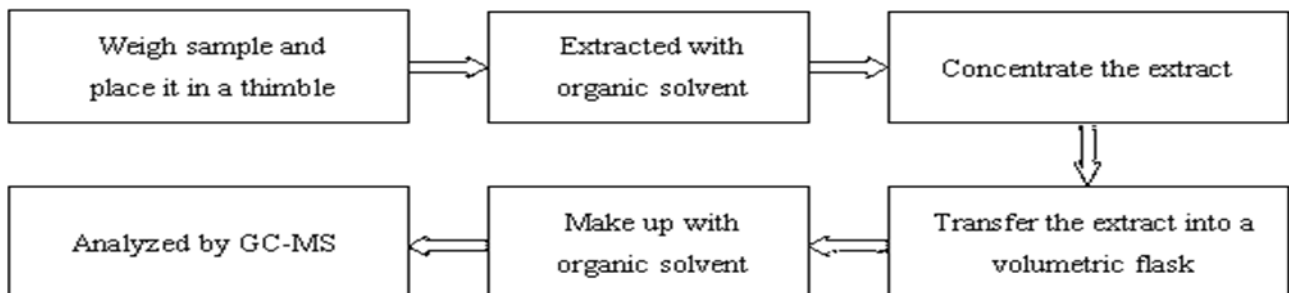
3.3.2. Mercury(Hg)



3.3.3. Hexavalent Chromium(Cr(VI))



3.3.4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs)

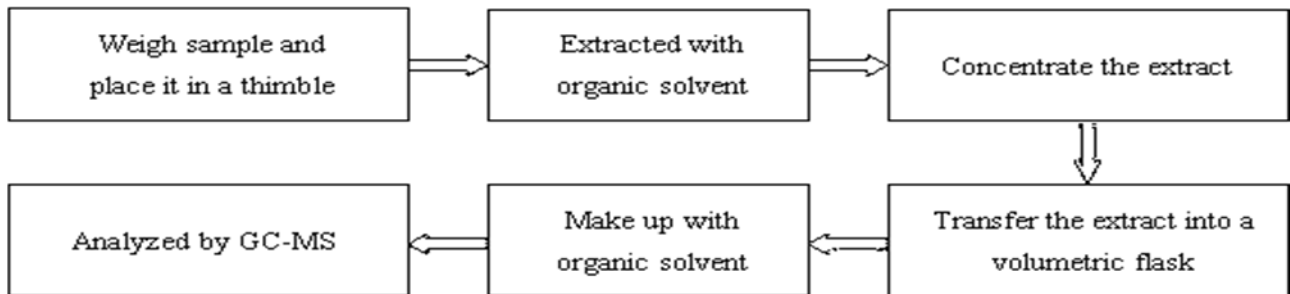


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3.3.5. Phthalates (DBP, BBP, DEHP, DIBP)



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Photo(s) of the sample(s)



*** End of Report ***

Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.