

Test Report

Report No. ECL01H029161009

Page 1 of 9

Applicant YANGZHOU HY TECHNOLOGY DEVELOPMENT CO.,LTD.

Address NO.45 HONGYANG EAST RD HUAISI YANGZHOU JIANGSU CHINA

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

Sample Name Glass Sleeves
Part No. DL-35/DL-41/DO-34/DO-35/DO-41/DO-41G/DB3
Sample Received Date Jun.17,2015
Testing Period Jun.17,2015 to Jun.23,2015

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Hexabromocyclododecane (HBCDD), Phthalates, Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I), Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA), Polycyclic Aromatic Hydrocarbons(PAHs) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Tested by

Ada

Reviewed by

Xu Jing



Su Hongwei

Su Hongwei
Senior Laboratory Manager

Date

Jun.23,2015

No. R187770828
Centre Testing International Co.,Ltd. Shanghai Branch No.1996,Xinjinqiao Road, Pudong New District,Shanghai,China

Test Report

Report No. ECL01H029161009

Page 2 of 9

Test Method

Tested Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
Polycyclic Aromatic Hydrocarbons(PAHs)	AfPS GS 2014:01 PAK	GC-MS
Phthalates	Refer to EN 14372:2004(E)	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3550C:2007 & US EPA 8270D:2007	GC-MS
Perfluorooctanoic Acid (PFOA)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
Perfluorooctane Sulfonates (PFOS)	Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
Fluorine (F)	Refer to BS EN 14582:2007	IC
Chlorine (Cl)	Refer to BS EN 14582:2007	IC
Bromine (Br)	Refer to BS EN 14582:2007	IC
Iodine (I)	Refer to BS EN 14582:2007	IC

Test Result(s)

Tested Item(s)	Result	MDL
Lead (Pb)	543850 mg/kg	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	2 mg/kg
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

Test Report

Report No. ECL01H029161009

Page 3 of 9

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
Hexabromocyclododecane (HBCDD)	N.D.	5 mg/kg
Perfluorooctanoic Acid (PFOA)	N.D.	5mg/kg
Perfluorooctane Sulfonates(PFOS)	N.D.	5mg/kg

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

Test Report

Report No. ECL01H029161009

Page 4 of 9

Limits for PAHs content (mg/kg) for material of (grip) surfaces, which are to be categorized on account of the results of the risk analysis.

Parameters	Category 1	Category 2		Category 3	
	Materials intended to be put in the mouth or materials of toys with foreseeable long-term skin contact (longer than 30 seconds)	Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact [#]		Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)	
		Toys covered by Directive 2009/48/EC	Other products	Toys covered by Directive 2009/48/EC	Other products
Benzo[a]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[b]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[k]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenz[a,h]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[g,h,i]perylene	<0.2	<0.2	<0.5	<0.5	<1
Indeno[1,2,3-cd]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene	<1 Sum	<5 Sum	<10 Sum	<20 Sum	<50 Sum
Naphthalene	<1	<2		<10	
Sum 18 PAHs	<1	<5	<10	<20	<50

[#] Formulation "of repeated short-term skin contact" REACH Annex XVII No. 50 supplement (REGULATION (EU) No.1272/2013)

Test Report

Report No. ECL01H029161009

Page 5 of 9

Test Result(s)

Tested Item(s)	Result	MDL
Polycyclic Aromatic Hydrocarbons(PAHs)		
Naphthalene	N.D.	0.2 mg/kg
Acenaphthylene	N.D.	0.2 mg/kg
Acenaphthene	N.D.	0.2 mg/kg
Fluorene	N.D.	0.2 mg/kg
Phenanthrene	N.D.	0.2 mg/kg
Anthracene	N.D.	0.2 mg/kg
Fluoranthene	N.D.	0.2 mg/kg
Pyrene	N.D.	0.2 mg/kg
Benzo[a]anthracene	N.D.	0.2 mg/kg
Chrysene	N.D.	0.2 mg/kg
Benzo[b]fluoranthene	N.D.	0.2 mg/kg
Benzo[k]fluoranthene	N.D.	0.2 mg/kg
Benzo[a]pyrene	N.D.	0.2 mg/kg
Indeno[1,2,3-cd]pyrene	N.D.	0.2 mg/kg
Dibenzo[a,h]anthracene	N.D.	0.2 mg/kg
Benzo[g,h,i]perylene	N.D.	0.2 mg/kg
Benzo[j]fluoranthene	N.D.	0.2 mg/kg
Benzo[e]pyrene	N.D.	0.2 mg/kg
Sum (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene)	N.D.	/
Sum 18 PAHs	N.D.	/

Tested Item(s)	Result	MDL
Halogen		
Fluorine (F)	N.D.	10mg/kg
Chlorine (Cl)	N.D.	10mg/kg
Bromine (Br)	N.D.	10mg/kg
Iodine (I)	N.D.	10mg/kg

Tested Sample/Part Description Colorless transparent glass

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

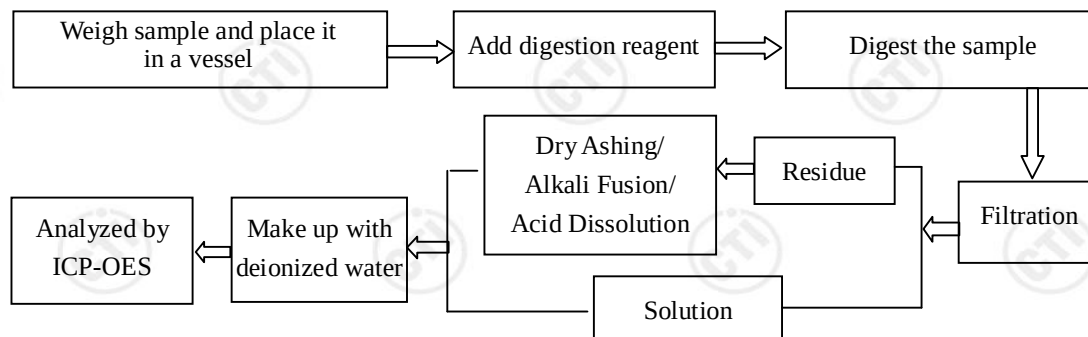
Test Report

Report No. ECL01H029161009

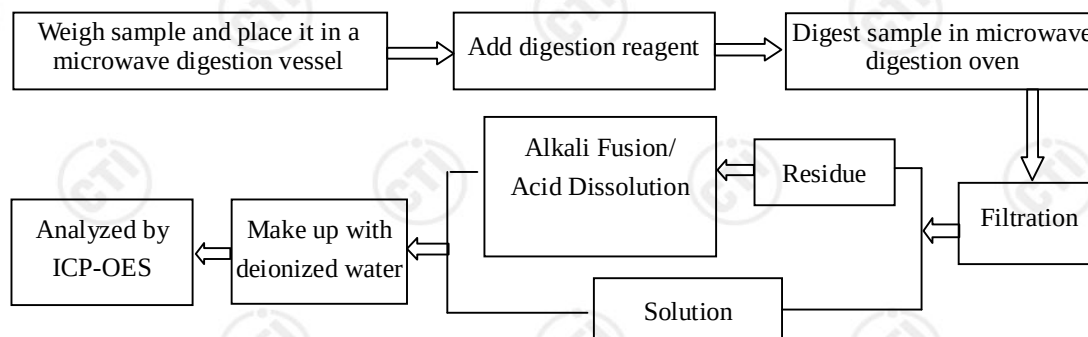
Page 6 of 9

Test Process

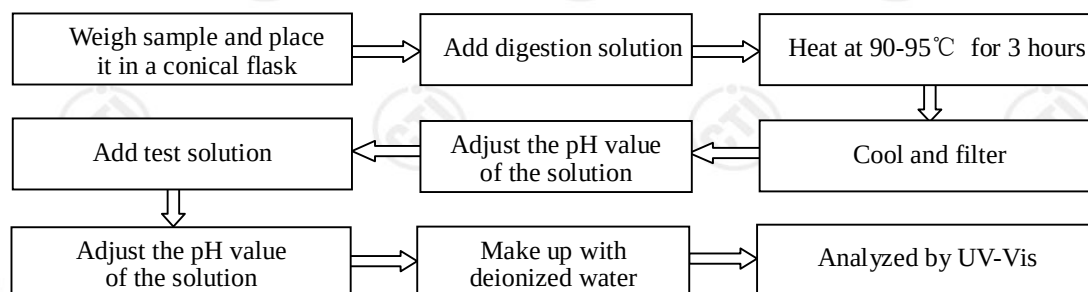
1. Lead(Pb), Cadmium(Cd)



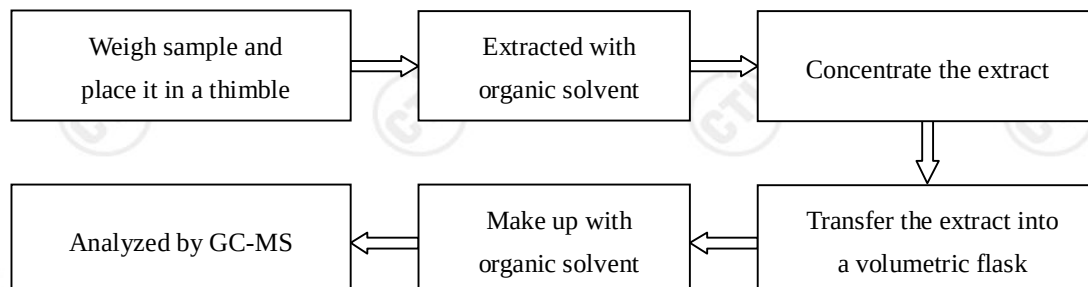
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



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

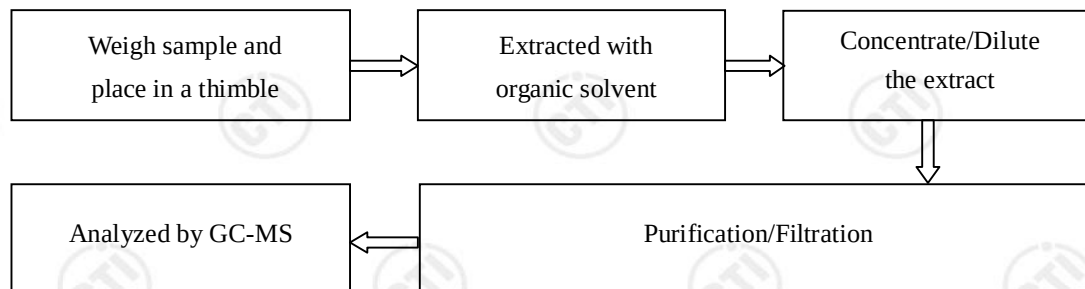


Test Report

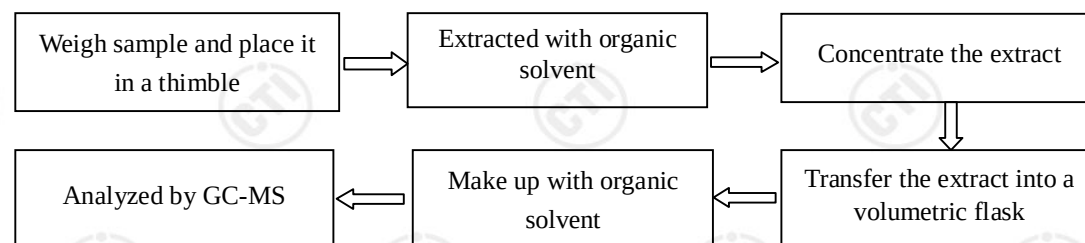
Report No. ECL01H029161009

Page 7 of 9

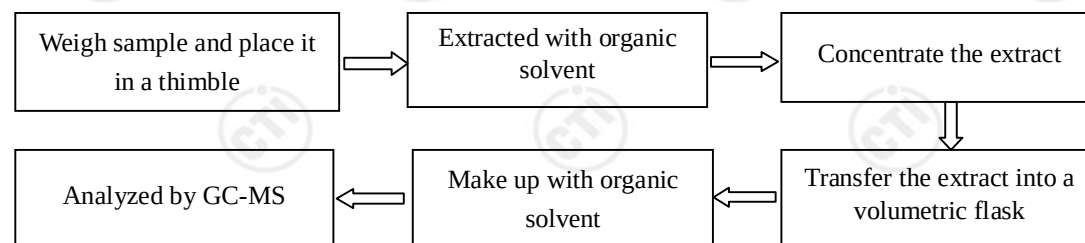
5. Polycyclic Aromatic Hydrocarbons(PAHs)



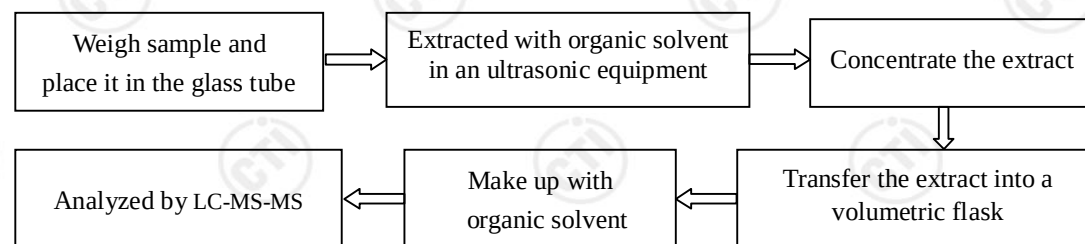
6. Phthalates



7. Hexabromocyclododecane (HBCDD)



8. Perfluorooctanoic Acid (PFOA), Perfluorooctane Sulfonates(PFOS)

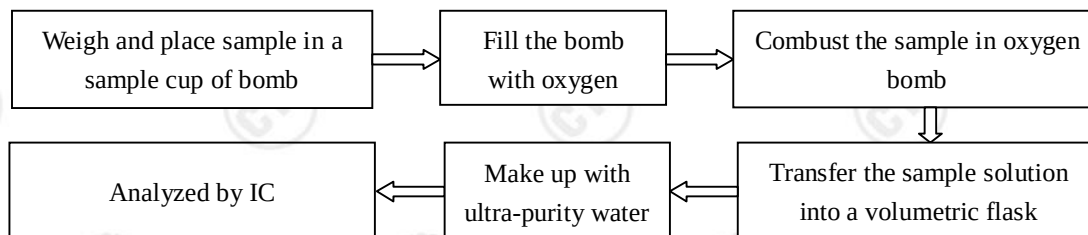


Test Report

Report No. ECL01H029161009

Page 8 of 9

9. Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)

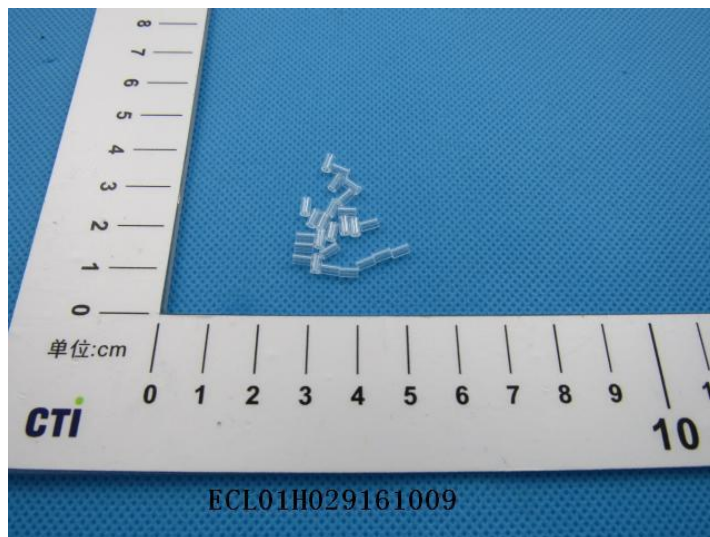


Test Report

Report No. ECL01H029161009

Page 9 of 9

Photo(s) of the sample(s)



*** End of Report ***

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