

Test Report

No. : CE/2010/70129E Date : 2010/12/17 Page : 1 of 16

ZYWYN CORPORATION
1270, OAKMEAD PARKWAY, SUITE 201, SUNNYVALE, CA94085, U.S.A



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

Sample Description : TSSOP-EXPOSED FAMILY
Style/Item No. : ZD831LEY, ZD832LEY, ZD850LEY, ZD1670LEY, ZD1680LEY
Sample Receiving Date : 2010/07/01
Testing Period : 2010/07/01 TO 2010/07/08

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

Conclusion : Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category 1) of ZEK 01.2-08 of German ZLS and its amendments.



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Result(s)

PART NAME NO.1 : BODY (TWO TYPES)
PART NAME NO.2 : PLATING LAYER OF SILVER COLORED METAL (TWO TYPES)

Test Item (s):	Unit	Method	MDL	Result	
				NO.1	NO.2
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	---
	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	---	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	---
	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	---	27
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.	---
	mg/kg	IEC 62321: 2008 application of modified digestion by surface etching and performed by ICP-AES.	2	---	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	---
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321: 2008 and performed by Spot test / boiling water extraction Method. (See Note 7)	0.02mg/kg with 50 cm ² surface area	---	Negative
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2	n.d.	---

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Test Item (s):	Unit	Method	MDL	Result	
				NO.1	NO.2
Phosphorus (P)	mg/kg	With reference to US EPA Method 3052 for Phosphorus Content. Analysis was performed by ICP-AES.	2	123	---
Hexabromocyclododecane (HBCDD) (CAS No.: 025637-99-4)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	---
Perfluorooctane sulfonates (PFOS) PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.	---
PFOA (CAS No.: 000335-67-1)	mg/kg	With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.	---
Halogen					
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	---
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	---
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	---
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.	---
Phthalates					
BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	---
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	---

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Test Item (s):	Unit	Method	MDL	Result	
				NO.1	NO.2
DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	---
DINP (Di-isononyl phthalate) (CAS No.: 028553-12-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	---
DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	---
DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	---
Sum of PBBs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	---
Monobromobiphenyl			5	n.d.	---
Dibromobiphenyl			5	n.d.	---
Tribromobiphenyl			5	n.d.	---
Tetrabromobiphenyl			5	n.d.	---
Pentabromobiphenyl			5	n.d.	---
Hexabromobiphenyl			5	n.d.	---
Heptabromobiphenyl			5	n.d.	---
Octabromobiphenyl			5	n.d.	---
Nonabromobiphenyl			5	n.d.	---
Decabromobiphenyl			5	n.d.	---
Sum of PBDEs			-	n.d.	---
Monobromodiphenyl ether			5	n.d.	---
Dibromodiphenyl ether			5	n.d.	---
Tribromodiphenyl ether			5	n.d.	---
Tetrabromodiphenyl ether			5	n.d.	---
Pentabromodiphenyl ether			5	n.d.	---
Hexabromodiphenyl ether			5	n.d.	---
Heptabromodiphenyl ether			5	n.d.	---
Octabromodiphenyl ether			5	n.d.	---
Nonabromodiphenyl ether			5	n.d.	---
Decabromodiphenyl ether			5	n.d.	---

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Test Item (s):	Unit	Method	MDL	Result	
				NO.1	NO.2
Polynuclear Aromatic Hydrocarbons (PAHs)					
Acenaphthene (CAS No.: 000083-32-9)	mg/kg	With reference to ZLS standard ZEK 01.2-08 method. Analysis was performed by GC/MS.	0.2	n.d.	---
Acenaphthylene (CAS No.: 000208-96-8)			0.2	n.d.	---
Anthracene (CAS No.: 000120-12-7)			0.2	n.d.	---
Benzo[a]anthracene (CAS No.: 000056-55-3)			0.2	n.d.	---
Benzo[a]pyrene (CAS No.: 000050-32-8)			0.2	n.d.	---
Benzo[b]fluoranthene (CAS No.: 000205-99-2)			0.2	n.d.	---
Benzo[g,h,i]perylene (CAS No.: 000191-24-2)			0.2	n.d.	---
Benzo[k]fluoranthene (CAS No.: 000207-08-9)			0.2	n.d.	---
Chrysene (CAS No.: 000218-01-9)			0.2	n.d.	---
Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)			0.2	n.d.	---
Fluoranthene (CAS No.: 000206-44-0)			0.2	n.d.	---
Fluorene (CAS No.: 000086-73-7)			0.2	n.d.	---
Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5)			0.2	n.d.	---
Naphthalene (CAS No.: 000091-20-3)			0.2	n.d.	---
Phenanthrene (CAS No.: 000085-01-8)			0.2	n.d.	---
Pyrene (CAS No.: 000129-00-0)			0.2	n.d.	---
Sum of 16 PAHs			-	n.d.	---

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Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. "---" = Not Conducted
6. ** = Qualitative analysis (No Unit)
7. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer; Positive = Presence of Cr(VI) coating / surface layer;
The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

PFOS Reference Information : Directive 2006/122/EC

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.

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Reference information for PAHs:

Requirement of ZEK 01.2-08 : Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Materials in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months.	Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1.	Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact.
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 16 EPA-PAH (mg/kg)*	<MDL (<0.2)**	10	200

Remark :

* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

** = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

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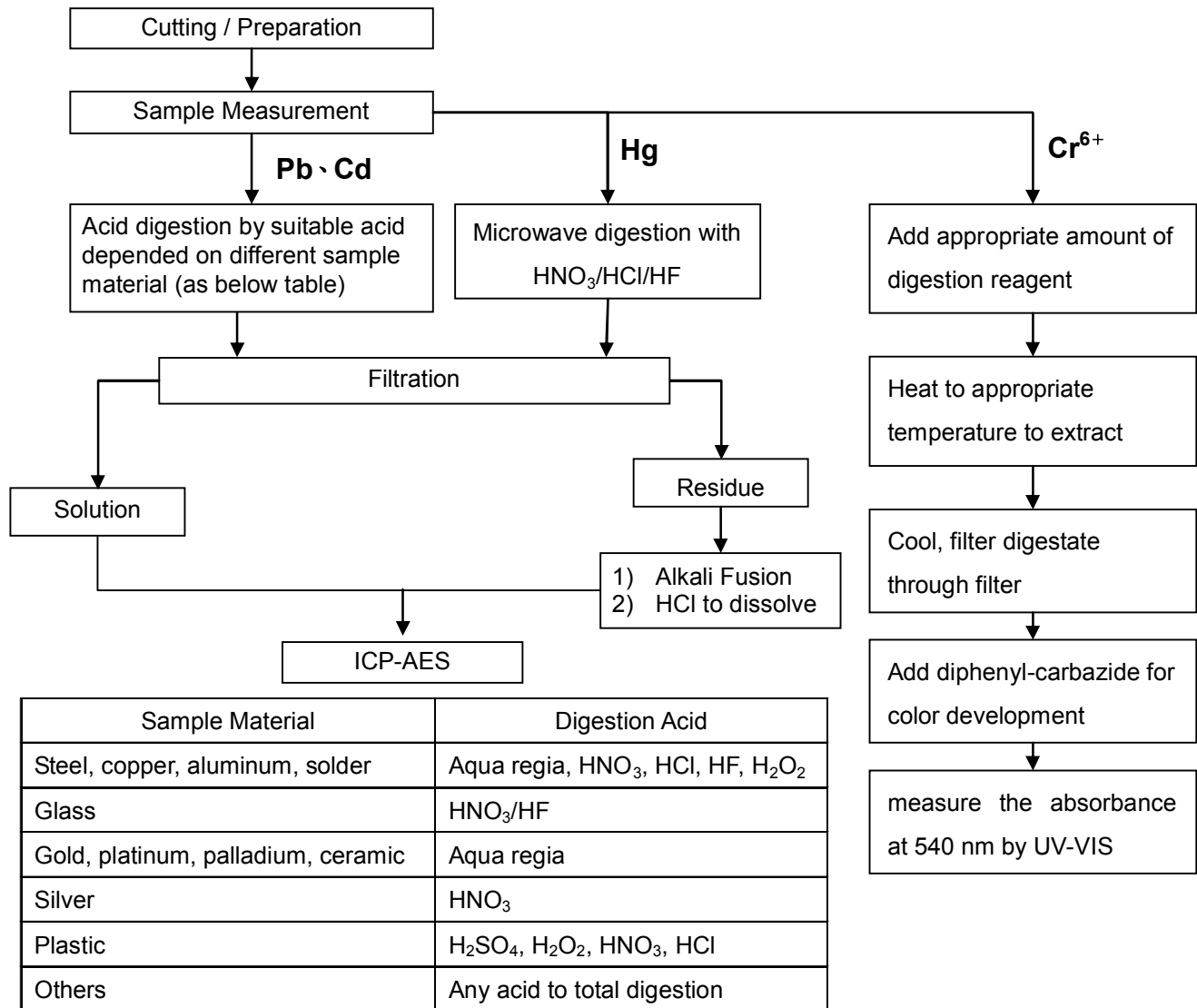
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- NO.1
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
 - 2) Name of the person who made measurement: Climbgreat Yang
 - 3) Name of the person in charge of measurement: Troy Chang



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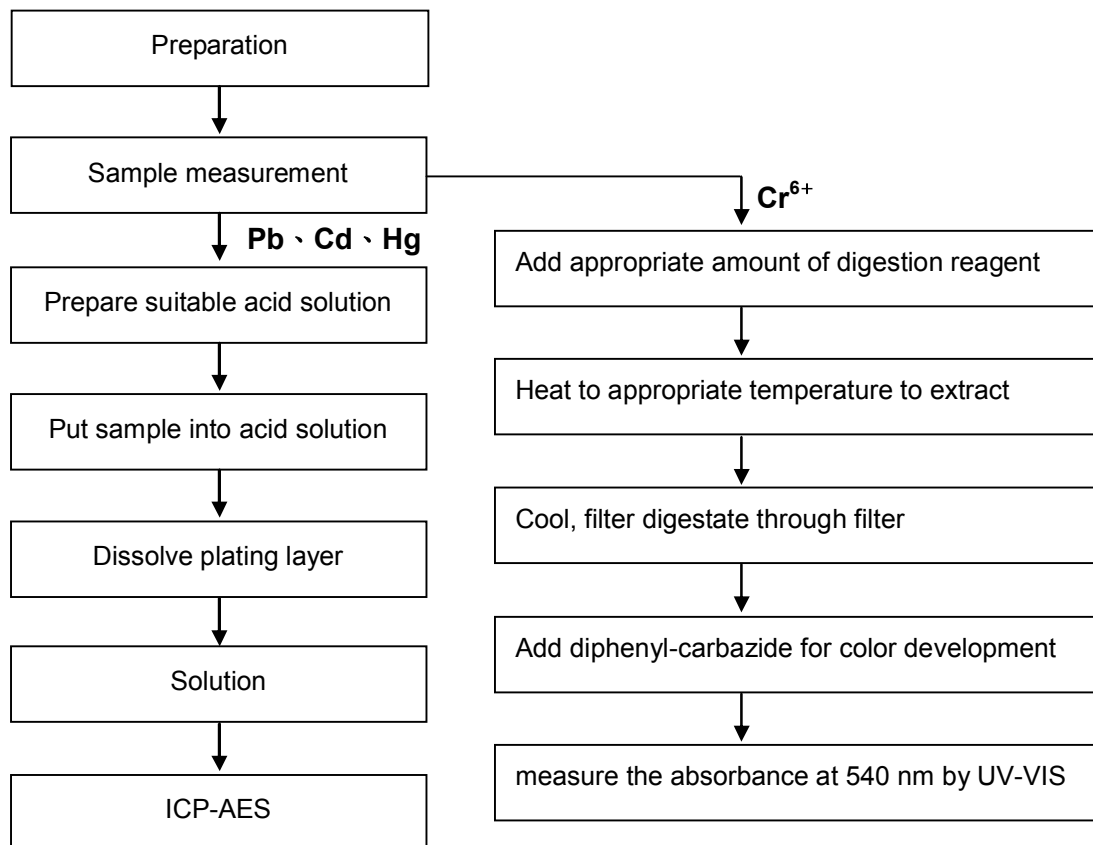
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- NO.2
- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
 - 2) Name of the person who made measurement: Climbgreat Yang
 - 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of Stripping method for metal analysis



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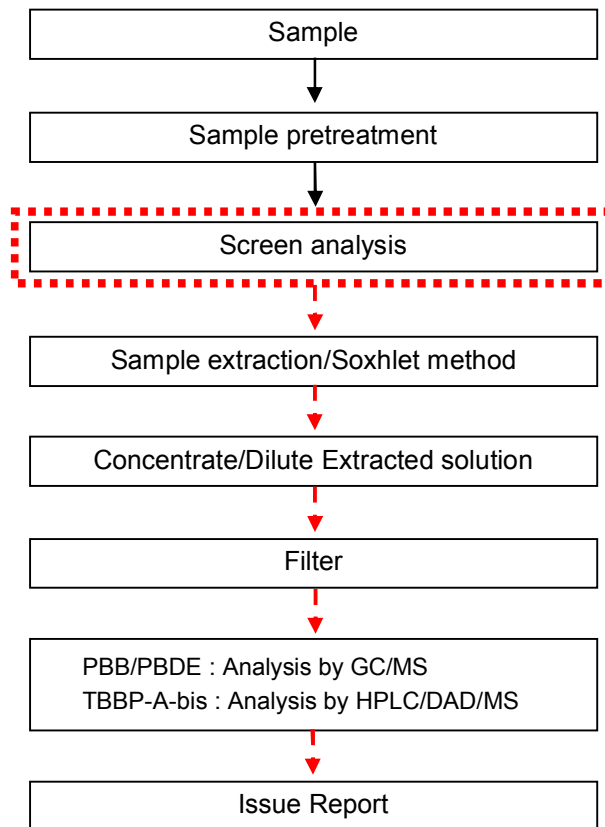
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Analytical flow chart

- 1) Name of the person who made measurement: Roman Wong
 - 2) Name of the person in charge of measurement: Troy Chang
- Test Items: PBB/PBDE, TBBP-A-bis

First testing process —> Optional screen process Confirmation process - ->



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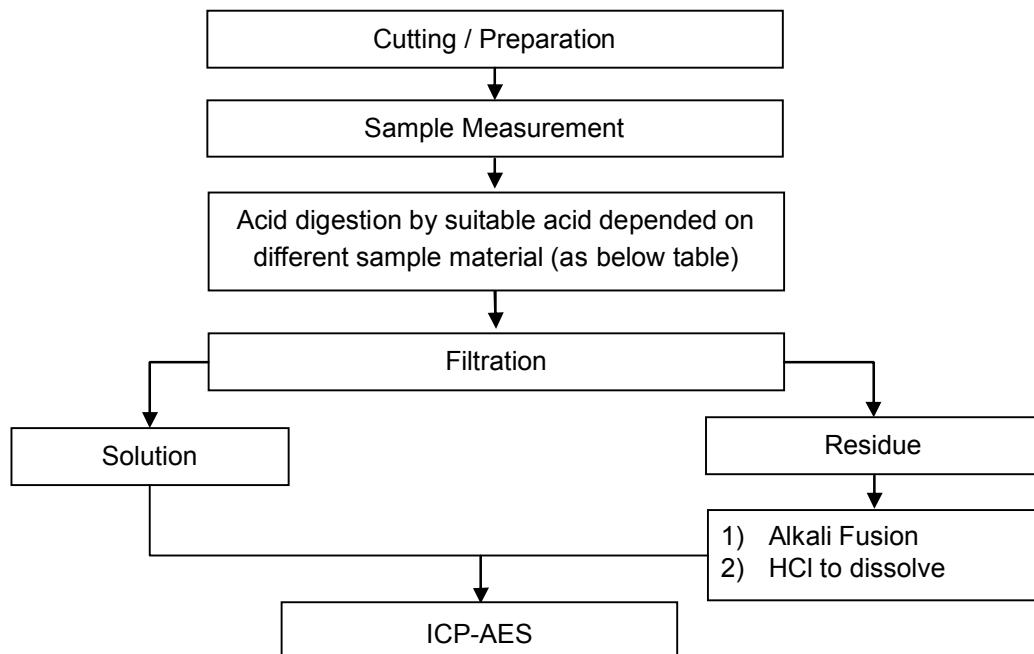
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of digestion for the elements analysis performed by ICP-AES



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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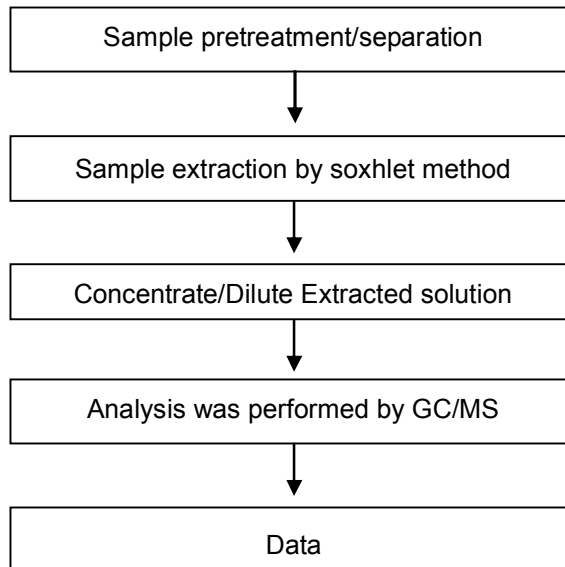
ZYWYN CORPORATION
1270, OAKMEAD PARKWAY, SUITE 201, SUNNYVALE, CA94085, U.S.A



Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjih Chen

■ Test Items: Phthalate 、Benzotriazole 、HBCDD 、NP 、DBBT



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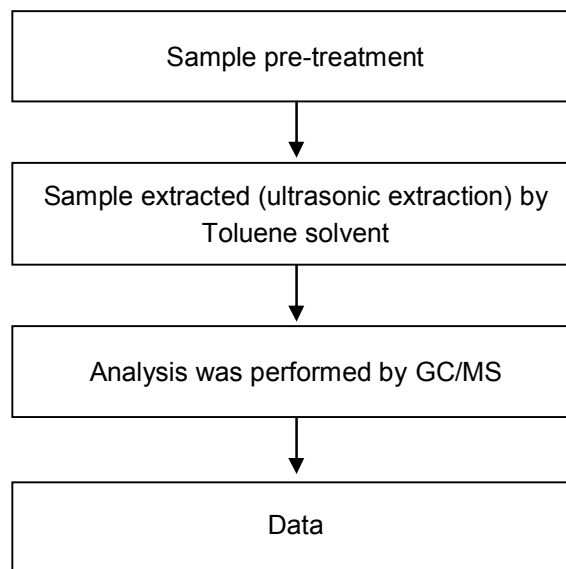
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PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 1) Name of the person who made measurement: Andy Shu
- 2) Name of the person in charge of measurement: Shinjyh Chen



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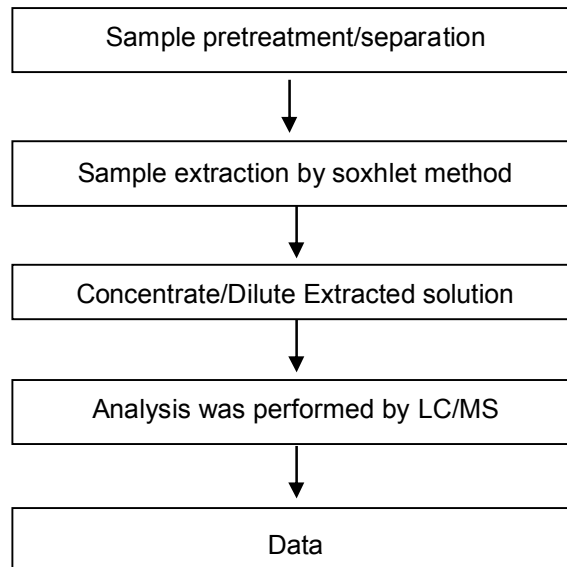
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Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) Name of the person who made measurement: Lydia Fu
- 2) Name of the person in charge of measurement: Shinjyh Chen

■ Test Items: PFOS/PFOA、Benzotriazole



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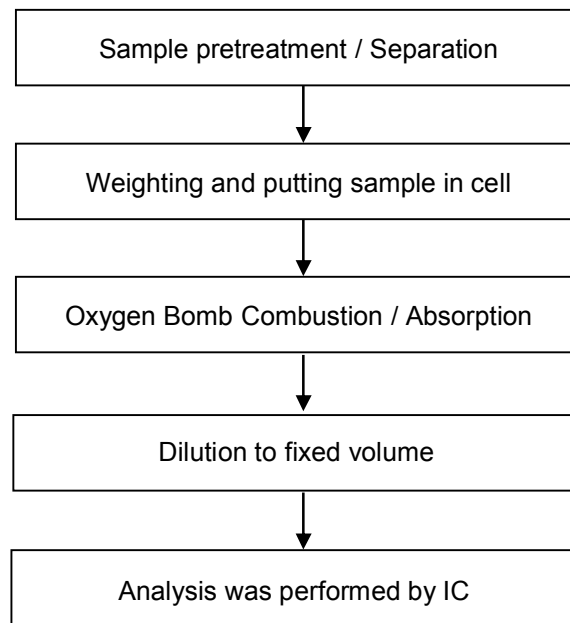
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Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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**** End of Report ****

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