

Test Report

No. CANEC2300543201

Date: 20 Jan 2023

Page 1 of 18

Client Name : CHONGQING PINGWEI ENTERPRISE CO.,LTD

Client Address : INDUSTRIAL PARK,LIANGPING COUNTY,CHONGQING

Sample Name : Semiconductor Devices

Model No. : TO-263

Client Ref. Info. : See remark

The above sample(s) and information were provided by the client.

SGS Job No. : 10024141 - CQ

Date of Sample Received : 10 Jan 2023

Testing Period : 10 Jan 2023 - 19 Jan 2023

Test Requested : Selected test(s) as requested by the client.

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

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

Result Summary :

Test Requested	Conclusion
Elementary Analysis	See Results
Asbestos	See Results
Tetrabromobisphenol A (TBBP-A)	See Results
Red Phosphor	See Results
Dimethyl Fumarate (DMF)	See Results
Nonylphenol Ethoxylate (NPEO)	See Results
Entry 20 of Regulation (EU) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 –Organotin compounds	PASS
AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Per- and polyfluoroalkyl substances (PFASs)	See Results



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Test Report

No. CANEC2300543201

Date: 20 Jan 2023

Page 2 of 18

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jany Zhong

Jany Zhong
Approved Signatory

scan to see the report



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Test Report

No. CANEC2300543201

Date: 20 Jan 2023

Page 3 of 18

Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN23-005432.001	Black "Body" with gray printing(mixed)

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Elementary Analysis

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to EPA 3052:1996), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Antimony (Sb)	mg/kg	10	ND
Beryllium (Be)	mg/kg	5	ND
Antimony trioxide(Sb ₂ O ₃)	mg/kg	12	ND

Notes :

- (1) Calculated concentration of Sb₂O₃ is based on the identified Sb.

Asbestos

Test Method : With reference to NIOSH 9002:1994 / NIOSH 9000:2015, Analysis was performed by PLM / XRD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Chrysotile	12001-29-5/13220 7-32-0	% (m/m)	0.1	Negative
Amosite	12172-73-5	% (m/m)	0.1	Negative
Crocidolite	12001-28-4	% (m/m)	0.1	Negative
Anthophyllite	77536-67-5	% (m/m)	0.1	Negative
Tremolite	77536-68-6	% (m/m)	0.1	Negative



Test Report

No. CANEC2300543201

Date: 20 Jan 2023

Page 4 of 18

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Actinolite	77536-66-4	% (m/m)	0.1	Negative

Notes :

(1) Negative means the absence of asbestos, Positive means the presence of asbestos.

Tetrabromobisphenol A (TBBP-A)

Test Method : SGS In-house method (GZTC CHEM-TOP-065, With reference to EPA 3540C:1996 & EPA 8270E:2017), analysis was performed by LC-MS/MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	5	ND

Red Phosphor

Test Method : SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ ICP-OES / GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Red phosphorus	mg/kg	500	ND

Dimethyl Fumarate (DMF)

Test Method : SGS In-house method (GZTC CHEM-TOP-095), analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dimethyl fumarate(DMF)	mg/kg	0.1	ND

Nonylphenol Ethoxylate (NPEO)

Test Method : SGS In-house method (GZTC CHEM-TOP-063-01, with reference to EPA 3550C:2007), analysis was performed by LC-MS.



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Test Report

No. CANEC2300543201

Date: 20 Jan 2023

Page 5 of 18

Test Item(s)	Unit	MDL	001
Nonylphenol Ethoxylate (NPEO)	mg/kg	30	ND

Entry 20 of Regulation (EU) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 -Organotin compounds

Test Method : SGS In-house method (GZTC CHEM-TOP-031, with reference to ISO 17353:2004), analysis was performed by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Tributyl tin (TBT) by weight of Tin	-	%(w/w)	0.01	ND
Triphenyl tin (TPhT) by weight of Tin	-	%(w/w)	0.01	ND
Tricyclohexyltin (TCyT) by weight of Tin	-	%(w/w)	0.01	ND
Trioctyltin (TOT) by weight of Tin	-	%(w/w)	0.01	ND
Tripropyltin (TPT) by weight of Tin	-	%(w/w)	0.01	ND
Trimethyltin(TMT) by weight of Tin	-	%(w/w)	0.01	ND
Σ of Tri substituted organotin compounds by weight of Tin	0.1	%(w/w)	-	ND
Dibutyl tin (DBT) by weight of Tin	0.1	%(w/w)	0.01	ND
Diocetyl tin (DOT) by weight of Tin	0.1	%(w/w)	0.01	ND
Comment				PASS

AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND



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Test Report

No. CANEC2300543201

Date: 20 Jan 2023

Page 6 of 18

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 4 PAHs (Phenanthrene, Pyrene, Anthracene, Fluoranthene)	-	mg/kg	-	ND
Sum of 15 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety) : PAHs requirements

Parameter (mg/kg)	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children ^{a,b} up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Note:

^a A "Child" is legally defined as a person before reaching the age of 14 years.

^b Use by children includes both active and passive contact by children.

^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)

^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark: The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Per- and polyfluoroalkyl substances (PFASs)

Test Method : With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic acid (PFOA) and its salts*	-	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its salts*	-	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol(N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol(N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND
Perfluorobutane Acid (PFBA)	375-22-4	mg/kg	0.01	ND
Perfluoropentane Acid (PFPeA)	2706-90-3	mg/kg	0.01	ND
Perfluorohexane acid (PFHxA)	307-24-4	mg/kg	0.01	ND
7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	mg/kg	0.01	ND
Perfluorobutane Sulfonate (PFBS)	375-73-5	mg/kg	0.01	ND
Perfluorobutanesulfonate K-salt (PFBS-K)*	29420-49-3	mg/kg	0.01	ND
Perfluoroheptane Acid (PFHpA)	375-85-9	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	mg/kg	0.01	ND
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.010	ND
Ammonium pentadecafluorooctanoate(APFO)*	3825-26-1	mg/kg	0.010	ND
Sodium perfluorooctanoate (PFOA-Na)*	335-95-5	mg/kg	0.01	ND
Potassium perfluorooctanoate (PFOA-K)*	2395-00-8	mg/kg	0.01	ND
Silver perfluorooctanoate (PFOA-Ag)*	335-93-3	mg/kg	0.01	ND
Perfluorooctanoyl fluoride (PFOA-F)*	335-66-0	mg/kg	0.01	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA)	27854-31-5	mg/kg	0.01	ND
Perfluorohexane Sulfonate (PFHxS)	355-46-4	mg/kg	0.01	ND
Perfluorohexanesulfonate Na-salt (PFHxS-Na)*	82382-12-5	mg/kg	0.01	ND
Perfluorohexanesulfonate K-salt (PFHxS-K)*	3871-99-6	mg/kg	0.01	ND
Perfluorononane Acid (PFNA)	375-95-1	mg/kg	0.01	ND
Perfluorononanoate Na-Salt (PFNA-Na)*	21049-39-8	mg/kg	0.01	ND
Perfluorononanoate ammonium salt (APFN)*	4149-60-4	mg/kg	0.01	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.01	ND
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	mg/kg	0.01	ND
Perfluoroheptanesulfonate Na-salt (PFHpS-Na)*	68555-66-8	mg/kg	0.01	ND

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Test Report

No. CANEC2300543201

Date: 20 Jan 2023

Page 9 of 18

Test Item(s)	CAS NO.	Unit	MDL	001
Perfluorodecane Acid (PFDA)	335-76-2	mg/kg	0.01	ND
Perfluorodecanoate Na-salt(PFDA-Na)*	3830-45-3	mg/kg	0.01	ND
Perfluorodecanoate ammonium salt(APFDA)*	3108-42-7	mg/kg	0.01	ND
2H,2H,3H,3H Perfluoroundecanoic acid (H4PFUnDA/ 8:3 FTCA)	34598-33-9	mg/kg	0.01	ND
Perfluorooctane sulfonates (PFOS)	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonyl fluoride(POSF)*	307-35-7	mg/kg	0.010	ND
Potassium Perfluorooctanesulfonate (PFOS-K)*	2795-39-3	mg/kg	0.01	ND
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)*	29081-56-9	mg/kg	0.01	ND
N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-DDA)*	251099-16-8	mg/kg	0.01	ND
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)*	70225-14-8	mg/kg	0.01	ND
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)*	29457-72-5	mg/kg	0.01	ND
Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)*	56773-42-3	mg/kg	0.01	ND
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	mg/kg	0.01	ND
Perfluorododecanoic Acid (PFDoDA)	307-55-1	mg/kg	0.01	ND
Perfluorodecane Sulfonate (PFDS)	335-77-3 / 126105-34-8	mg/kg	0.01	ND
Perfluorodecanesulfonate Na-salt (PFDS-Na)*	2806-15-7	mg/kg	0.01	ND
Perfluorodecanesulfonate K-salt (PFDS-K)*	2806-16-8	mg/kg	0.01	ND
Perfluoroaliphatic Dean-sulfonate salt of NH ₄ (PFDS-NH ₄)*	67906-42-7	mg/kg	0.01	ND
Perfluorotridecanoic Acid (PFTTrDA)	72629-94-8	mg/kg	0.01	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	mg/kg	0.01	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	mg/kg	0.1	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.1	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	mg/kg	0.1	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.1	ND



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Test Report

No. CANEC2300543201

Date: 20 Jan 2023

Page 10 of 18

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1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro -1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.1	ND

Notes :

(1) * The test result is based on the calculation of selected marker(s) and to the worst-case scenario.

Remark: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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Remark:

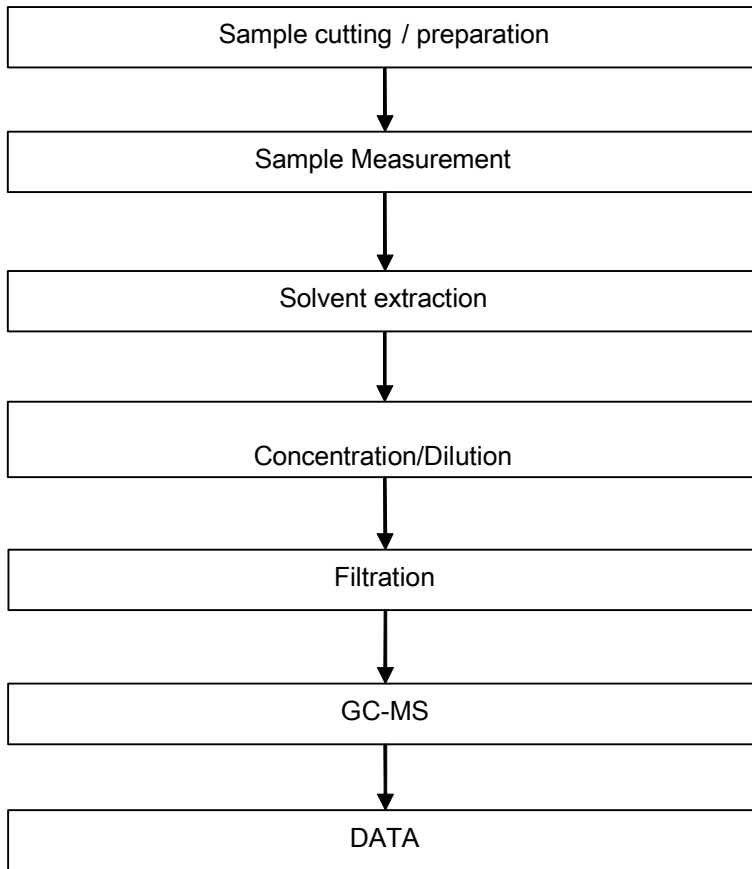
Rectifier Bridge, Mosfet, Photovoltaic module, SOD-923, SOD-723, SC-89, SOT-416, SOT-23, SOT-323, SOT-252, SOT-223, A-405, DO-41(DO-204AL), DO-15(DO-204AC), DO-27 (DO-201AD), DO-27 (DO-201AE), HVM, HV, R-1, R-3, R-6, ITO-220AC/AB, TO-220AC/AB, WOB, RB-1, MBS, BR-15, RC-2, BRW, DB, DBS, GBJ, GBL, GBP, GBU, KBPC, KBP, KBU, KBL, MB, MM, RS, SMA(DO-214AC), SMB(DO-214AA), SMC(DO-214AB), SMF, PS-277, PS-277A, PS-277B, SOT-23, SOT-123, SOT-523, SOD-123, SOD-323, SOD-523, TO-92, TO-126, SOD-126, ABS, KBJ, LL-34, DO-35, DO-41, LL-41, SOD-123FL, TBF, TO-251, TO-252, TO-262, TO-263, ABM, MBF, SMBF, D3K, SMFL, TMBF, SOD-123HE, SOP-8, ABF, TO-220CB, TO-220MF, TO-247, DFN, SMFT, TO-220FS, TO-262CB, TO-263CB, SOD-123FT, TO-277, HGBU, HGBJ, RTMBF, TBM, DO-218AB, SOT223, TO-3P, TOLL-1, TOLL-2, SOT-563



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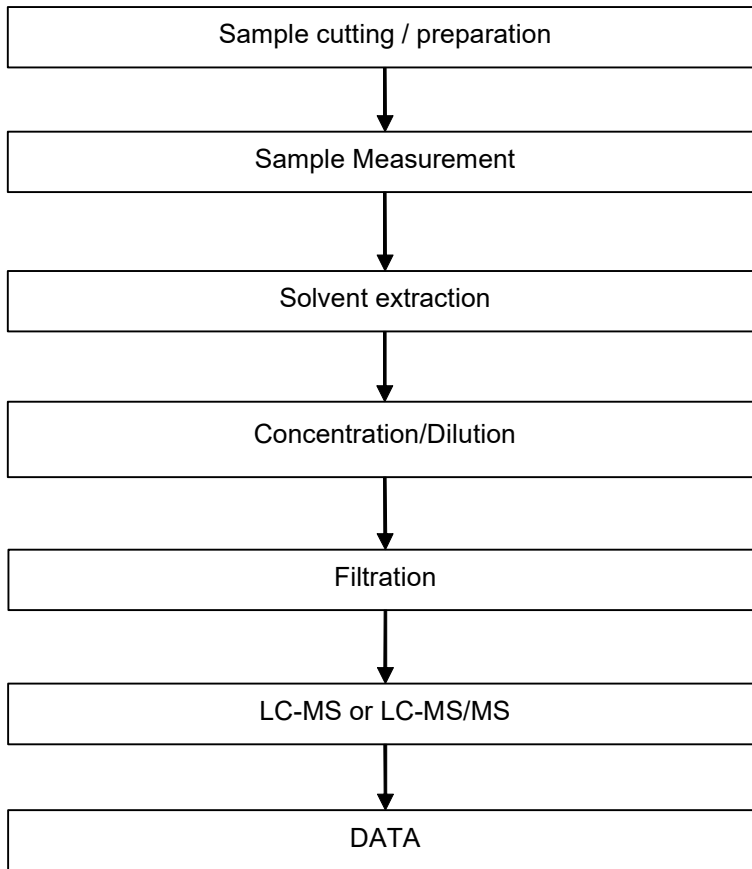
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PAHs Testing Flow Chart



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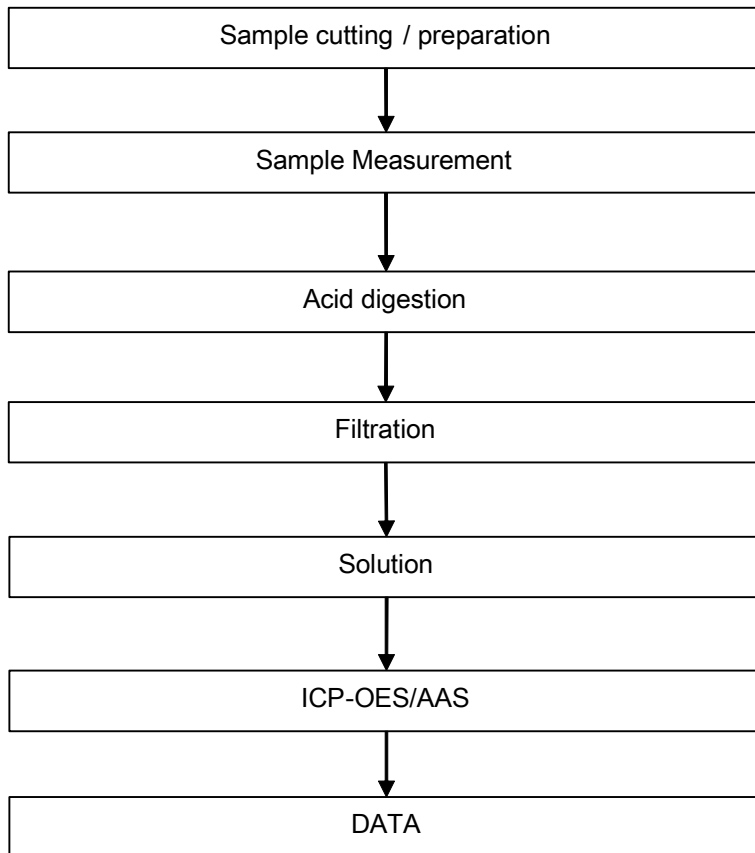
Testing Flow Chart



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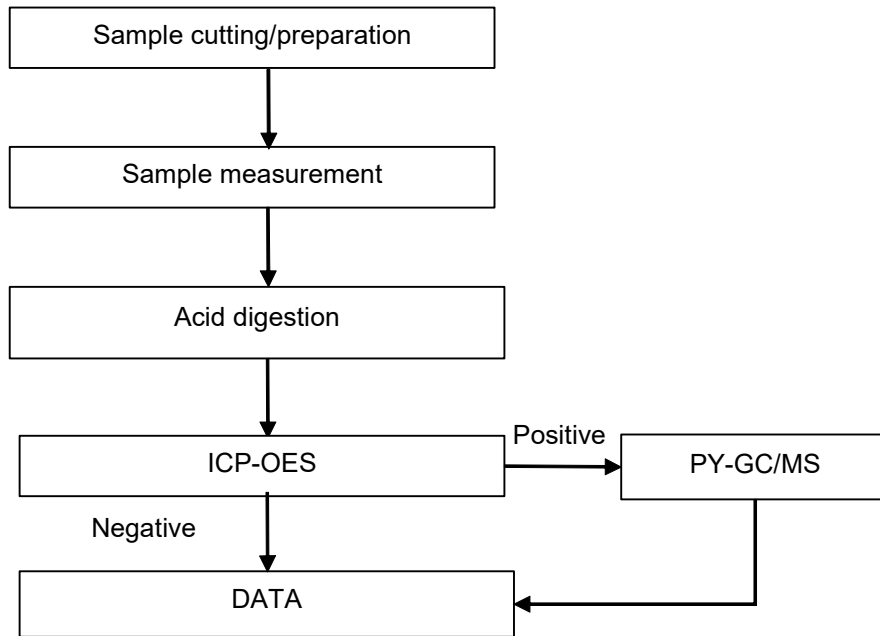
Elementary Testing Flow Chart



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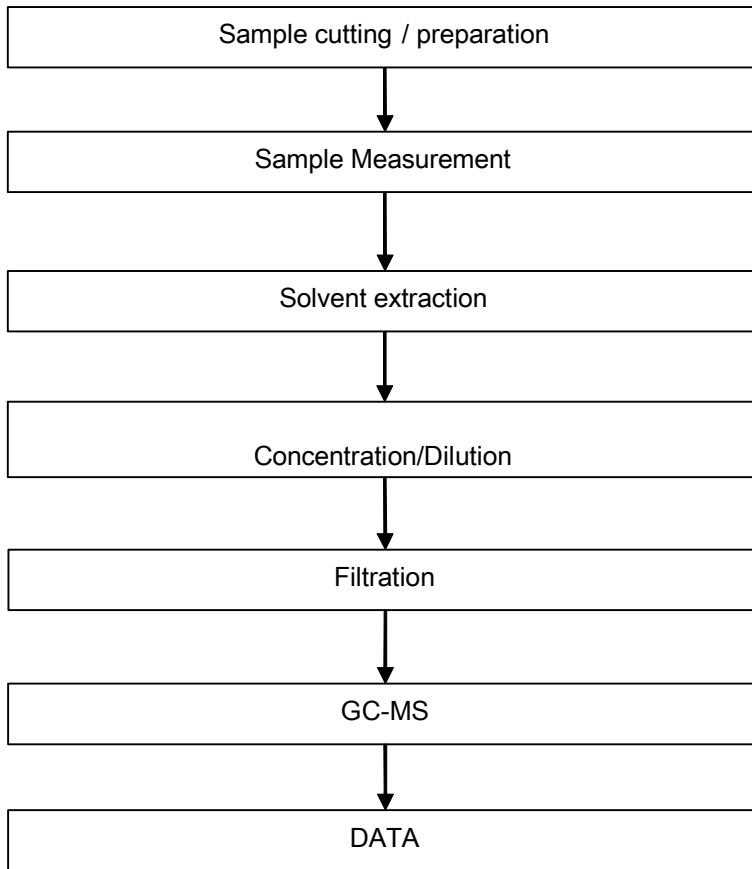
Red phosphorus Testing Flow Chart



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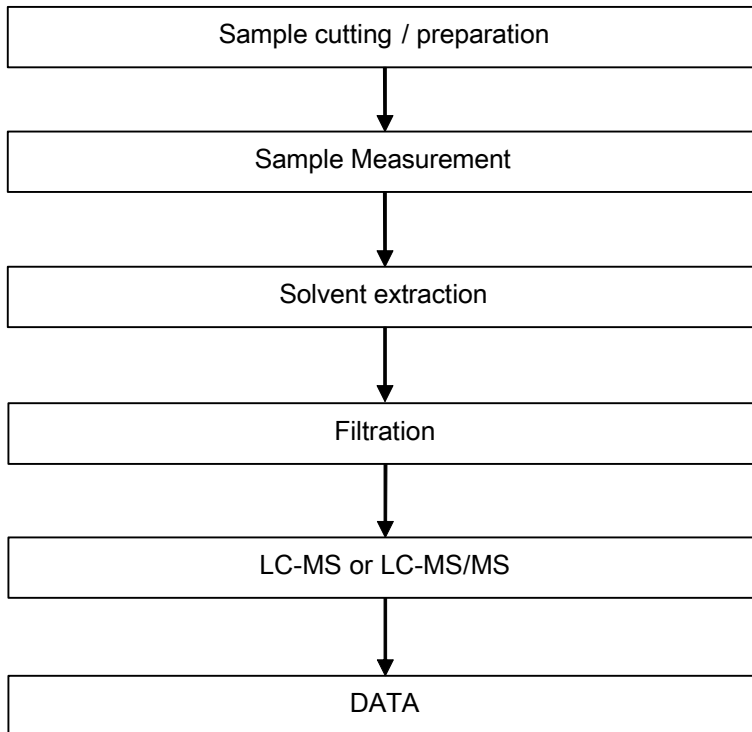
Dimethyl Fumarate Testing Flow Chart



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TBBP-A Testing Flow Chart



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