

Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(The following sample(s) was/were submitted and identified by the applicant as)

| | |
|--------------------------------------|---|
| BASIC INFORMATION | |
| Type of Product | HIGH POWER LED_ ALFSX |
| Supplier Company Name | EVERLIGHT |
| Address | NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN |
| Tel / Fax / Email | TEL:886-2685-6688 |
| | FAX:886-2685-6699 |
| | E-MAIL: allenchiang@everlight.com |
| Contact Person | Allen |
| EVERLIGHT REPORT NO | EVERLIGHT-ALFSX SERIES Sampling Product : ALFS1G-C010001H-62OCC4C51A1B-1T-AM-SGS-15-Sep-2023 |
| PRODUCT INFORMATION | |
| Product/component Sample description | DRL ,Head lamp ,Fog lamp |
| Quantity (numbers or weight) | 0.008 g |
| EVERLIGHT P/N | ALFSX SERIES Sampling Product : ALFS1G-C010001H-62OCC4C51A1B-1T-AM |
| Product Lot No | T230321A0602BA7WGMP |
| Country of Origin | TAIWAN |
| TEST INFORMATION | |
| Sample preparation | CUTTING |
| Test Method | RoHS: IEC 62321, Halogen: BS EN 14582 |
| MDL | Cd, Pb, Hg: 2 mg/kg, PBBs/PBDEs: 5 mg/kg, Halogen: 50 mg/kg |

(Sample Submitted By)

:

(EVERLIGHT ELECTRONICS CO., LTD.)

(Sample Receiving Date)

: 01-Sep-2023

(Testing Period)

: 01-Sep-2023 to 15-Sep-2023

(Test Results)

:

(Please refer to following pages).


Troy Chang / Department Manager
Signed for and on behalf of




PIN CODE: 3D8E407E

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(No.): ETR23900027

(Date): 15-Sep-2023

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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

| | (Method) | (Unit) | MDL | No.1 | (Limit) |
|----------------------|--|--------|-----|------|---------|
| | IEC 62321-4: 2013+ AMD1: 2017 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | 1000 |
| | IEC 62321-7-2: 2017 (With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.) | mg/kg | 8 | n.d. | 1000 |
| (Pentabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| (Tetrabrom | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | 5 | n.d. | - |
| | | mg/kg | - | n.d. | 1000 |

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| (Test Items) | (Method) | (Unit) | MDL | (Result) | (Limit) |
|--|--|--------|-----|----------|---------|
| | | | | No.1 | |
| (BBP) (Butyl benzyl phthalate (BBP)) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | 1000 |
| (DBP) (Dibutyl phthalate (DBP)) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | 1000 |
| (2-ethylhexyl) phthalate (DEHP)) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | 1000 |
| (DIBP) (Diisobutyl phthalate (DIBP)) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | 1000 |
| (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| (DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| (DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| (DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| (2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| (DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |

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| (Test Items) | (Method) | (Unit) | MDL | (Result) | (Limit) |
|---|---|--------|------|----------|---------|
| | | | | No.1 | |
| (DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| (DNNP) (Di-n-nonyl phthalate (DNNP)) (CAS No.: 84-76-4) | IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| (HBCDD) (- HBCDD, - HBCDD, - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (- HBCDD, - HBCDD, - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.) | mg/kg | 5 | n.d. | - |
| (F) (Fluorine (F)) (CAS No.: 14762-94-8) | BS EN 14582: 2016 (With reference to BS EN 14582: 2016, analysis was performed by IC.) | mg/kg | 50 | 158 | - |
| (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1) | | mg/kg | 50 | n.d. | - |
| (Br) (Bromine (Br)) (CAS No.: 10097-32-2) | | mg/kg | 50 | n.d. | - |
| (I) (Iodine (I)) (CAS No.: 14362-44-8) | | mg/kg | 50 | n.d. | - |
| (PFOS and its salts) (CAS No.: 1763-23-1 and its salts) | CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.) | mg/kg | 0.01 | n.d. | - |
| (PFOA and its salts) (CAS No.: 335-67-1 and its salts) | CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.) | mg/kg | 0.01 | n.d. | - |
| (Be) (Beryllium (Be)) (CAS No.: 7440-41-7) | US EPA 3052: 1996 (With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | - |

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| (Test Items) | (Method) | (Unit) | MDL | (Result) | (Limit) |
|--|--|--------|-----|----------|---------|
| | | | | No.1 | |
| (Polycyclic Aromatic Hydrocarbons) (PAHs) | | | | | |
| (a) (Benzo[a]pyrene) (CAS No.: 50-32-8) | A fPS GS 2019:01 PAK / (With reference to A fPS GS 2019:01 PAK, analysis was performed by GC/MS.) | mg/kg | 0.2 | n.d. | |
| (e) (Benzo[e]pyrene) (CAS No.: 192-97-2) | | mg/kg | 0.2 | n.d. | |
| (Benzo[a]anthracene) (CAS No.: 56-55-3) | | mg/kg | 0.2 | n.d. | |
| (b) (Benzo[b]fluoranthene) (CAS No.: 205-99-2) | | mg/kg | 0.2 | n.d. | |
| (j) (Benzo[j]fluoranthene) (CAS No.: 205-82-3) | | mg/kg | 0.2 | n.d. | |
| (k) (Benzo[k]fluoranthene) (CAS No.: 207-08-9) | | mg/kg | 0.2 | n.d. | |
| (Chrysene) (CAS No.: 218-01-9) | | mg/kg | 0.2 | n.d. | |
| (Dibenzo[a,h]anthracene) (CAS No.: 53-70-3) | | mg/kg | 0.2 | n.d. | |
| (Benzo[g,h,i]perylene) (CAS No.: 191-24-2) | | mg/kg | 0.2 | n.d. | |
| (Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5) | | mg/kg | 0.2 | n.d. | |
| (Anthracene) (CAS No.: 120-12-7) | | mg/kg | 0.2 | n.d. | |
| (Fluoranthene) (CAS No.: 206-44-0) | | mg/kg | 0.2 | n.d. | |
| (Phenanthrene) (CAS No.: 85-01-8) | | mg/kg | 0.2 | n.d. | |
| (Pyrene) (CAS No.: 129-00-0) | | mg/kg | 0.2 | n.d. | |
| (Naphthalene) (CAS No.: 91-20-3) | | mg/kg | 0.2 | n.d. | |
| 15 (Sum of 15 PAHs) | | mg/kg | - | n.d. | |

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PAHs Remark

(AfPS): GS PAHs

AfPS (German commission for Product Safety): GS PAHs requirements

| (Parameter) | 1 (Category 1) | 2 (Category 2) | | 3 (Category 3) | |
|----------------------|---|---|----------------------------------|------------------------------|----------------------------------|
| | (Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds)) | 1 (Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin) | a. 14 (Use by children under 14) | b. (Other consumer products) | a. 14 (Use by children under 14) |
| Naphthalene | < 1 | < 2 | | < 10 | |
| Phenanthrene | < 1 Sum | < 5 Sum | < 10 Sum | < 20 Sum | < 50 Sum |
| Anthracene | | | | | |
| Fluoranthene | | | | | |
| Pyrene | | | | | |
| Benzo[a]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Chrysene | < 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 |
| Benzo[a]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[e]pyrene | < 0.2 | < 0.2 | | | |

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| (Classification of Substance Concentration) | (Substance Name) | CAS No. |
|---|---|-------------|
| Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts) | (PFOS-DDA) N-decyl-N,N-dimethyldecyl-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 |
| | (POSF) Perfluorooctane sulfonyl fluoride (POSF) | 307-35-7 |
| | (PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg) | 91036-71-4 |
| | (PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na) | 4021-47-0 |
| Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts) | (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na) | 335-95-5 |
| | (PFOA-K) Potassium perfluorooctanoate (PFOA-K) | 2395-00-8 |
| | (PFOA-Ag) Silver perfluorooctanoate (PFOA-Ag) | 335-93-3 |
| | (PFOA-F) Perfluorooctanoyl fluoride (PFOA-F) | 335-66-0 |
| | (APFO) Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 |
| | (PFOA-Li) Lithium perfluorooctanoate (PFOA-Li) | 17125-58-5 |

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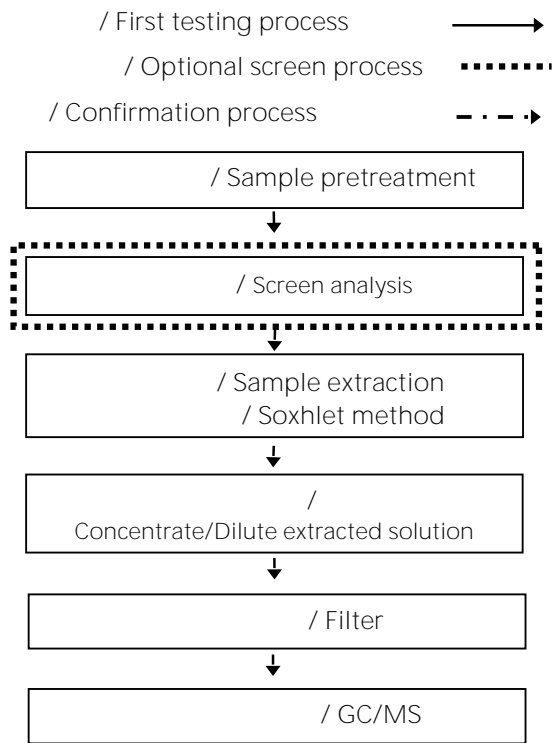
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/ Analytical flow chart - PBBs/PBDEs



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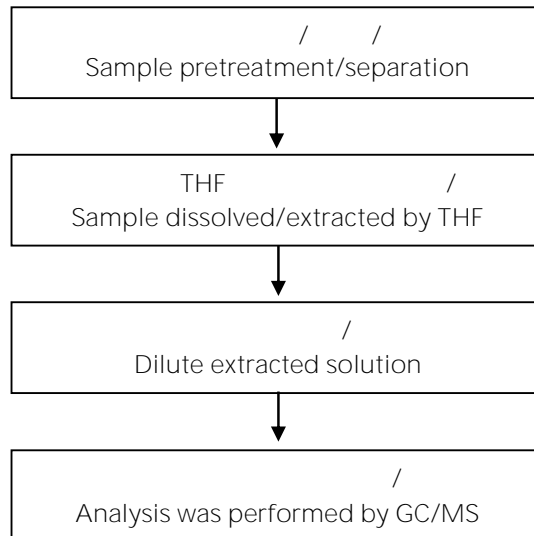
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8



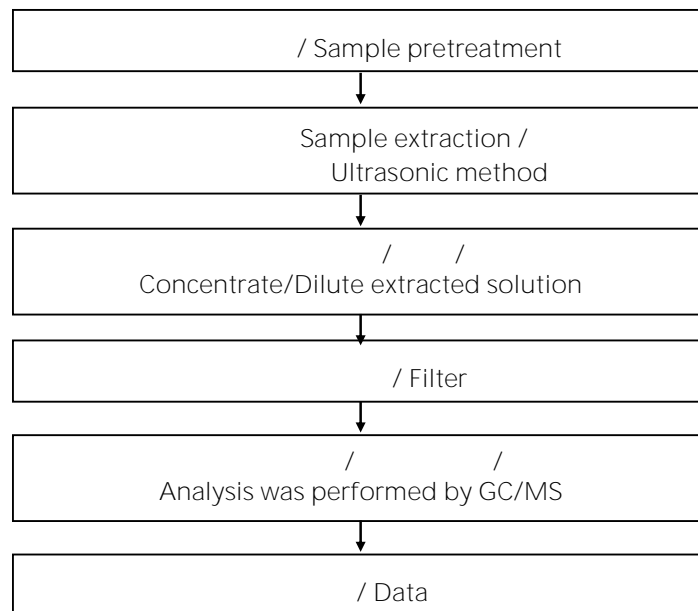
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/ Analytical flow chart - HBCDD



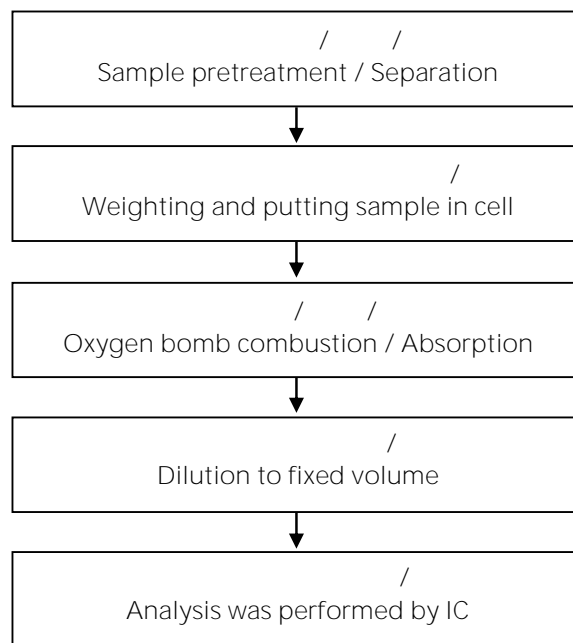
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Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Analytical flow chart - Halogen



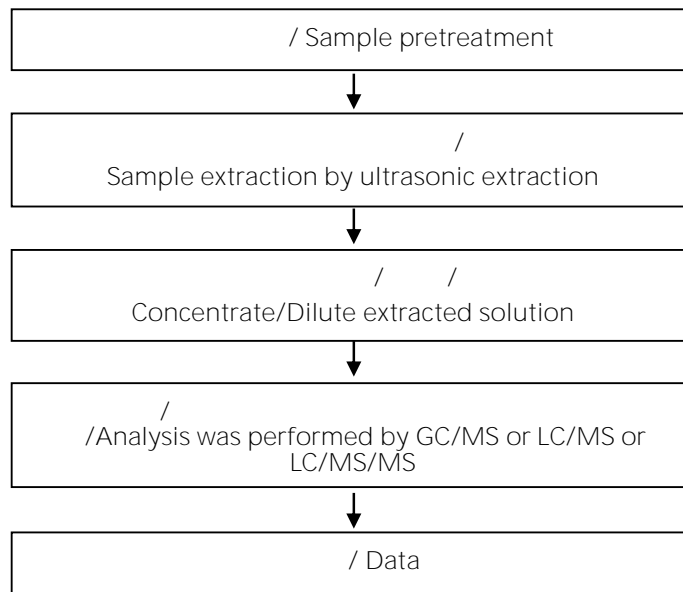
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(/ /) / Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)



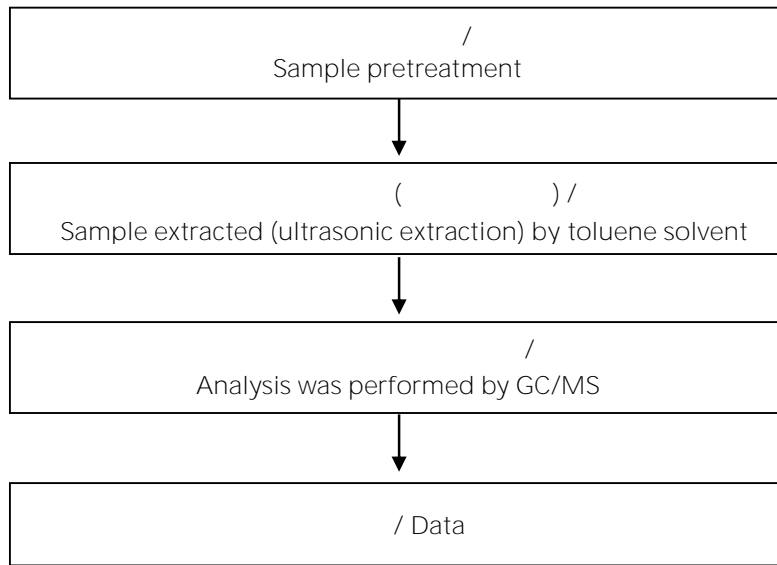
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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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Test Report

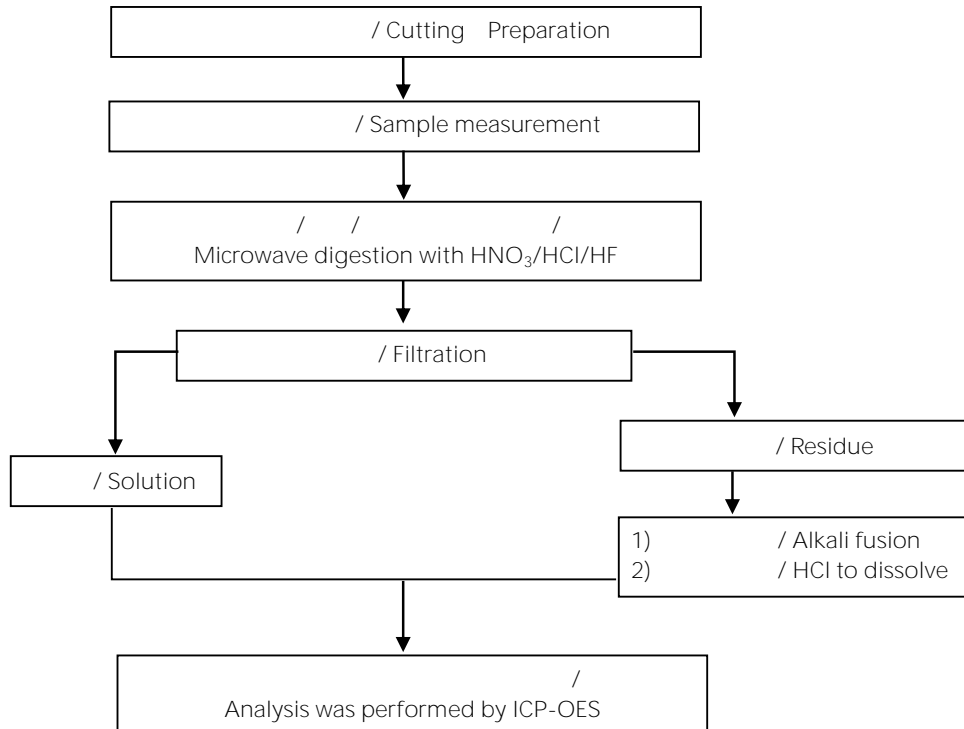
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() / Analytical flow chart of elements (Heavy metal included)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

/Reference method US EPA 3051A US EPA 3052



* US EPA 3051A

/ US EPA 3051A method does not add HF.

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* / *

(The tested sample / part is marked by an arrow if it's shown on the photo.)



** (End of Report) **

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