

No.: EKR21C00056 Date: 10-Dec-2021

YAGEO CORPORATION

3F, NO. 233-1, BAOQIAO RD., XINDIAN DIST., NEW TAIPEI CITY 23145, TAIWAN

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

Sample Submitted By YAGEO CORPORATION

Sample Name PURE Sn 99.99

Sample Receiving Date 01-Dec-2021

Testing Period 01-Dec-2021 to 10-Dec-2021

Test Requested (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and

amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury,

Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted

sample(s).

(2) Please refer to next pages for the other item(s).

Test Results Please refer to following pages.

Ray Chang Ph.D./Departthe Signed for and on behalf SĞS TAIWAN LTD. Chemical Laboratory-Kaohsiung

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Test Part Description

No.1 : SILVER COLORED METAL

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result
				No.1
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.
	analysis was performed by ICP-OES.			
Lead (Pb) (CAS No.: 7439-92-1)	With reference to IEC 62321-5: 2013,	mg/kg	2	4.00
	analysis was performed by ICP-OES.			
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.
	AMD1: 2017, analysis was performed			
	by ICP-OES.			
Hexavalent Chromium Cr(VI) (CAS No.:	With reference to IEC 62321-7-1:	μg/cm²	0.1	n.d.
18540-29-9) (#2)	2015, analysis was performed by UV-			
	VIS.			
Monobromobiphenyl		mg/kg	5	n.d.
Dibromobiphenyl		mg/kg	5	n.d.
Tribromobiphenyl		mg/kg	5	n.d.
Tetrabromobiphenyl		mg/kg	5	n.d.
Pentabromobiphenyl	With reference to IEC 62321-6: 2015,	mg/kg	5	n.d.
Hexabromobiphenyl	analysis was performed by GC/MS.	mg/kg	5	n.d.
Heptabromobiphenyl	analysis was performed by defivior.	mg/kg	5	n.d.
Octabromobiphenyl		mg/kg	5	n.d.
Nonabromobiphenyl		mg/kg	5	n.d.
Decabromobiphenyl		mg/kg	5	n.d.
Sum of PBBs		mg/kg	1	n.d.
Monobromodiphenyl ether		mg/kg	5	n.d.
Dibromodiphenyl ether		mg/kg	5	n.d.
Tribromodiphenyl ether		mg/kg	5	n.d.
Tetrabromodiphenyl ether		mg/kg	5	n.d.
Pentabromodiphenyl ether	With reference to IEC 62221 6: 2015	mg/kg	5	n.d.
Hexabromodiphenyl ether	With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.	mg/kg	5	n.d.
Heptabromodiphenyl ether		mg/kg	5	n.d.
Octabromodiphenyl ether		mg/kg	5	n.d.
Nonabromodiphenyl ether		mg/kg	5	n.d.
Decabromodiphenyl ether		mg/kg	5	n.d.
Sum of PBDEs		mg/kg	-	n.d.

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Test Item(s)	Method	Unit	MDL	Result
				No.1
Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		mg/kg	50	n.d.
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)		mg/kg	50	n.d.
Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)		mg/kg	50	n.d.
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		mg/kg	50	n.d.
Bis-(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8)		mg/kg	50	n.d.
Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3)		mg/kg	50	n.d.
Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0)		mg/kg	50	n.d.
Fluorine (F) (CAS No.: 14762-94-8)		mg/kg	50	n.d.
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.
Bromine (Br) (CAS No.: 10097-32-2)	analysis was performed by IC.	mg/kg	50	n.d.
Iodine (I) (CAS No.: 14362-44-8)		mg/kg	50	n.d.
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4, 3194-	With reference to IEC 62321: 2008, analysis was performed by GC/MS.	mg/kg	5	n.d.
55-6 (134237-51-7, 134237-50-6, 134237-52-8)) Perfluorooctanoic acid (PFOA) and it's		mg/kg	0.01	n.d.
salt (CAS No.: 335-67-1 and its salts)	With reference to CEN/TS 15968:	ر ر	-	
Perfluorooctane sulfonate (PFOS) and it's salt (CAS No.: 1763-23-1 and its salts)	2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.

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Test Item(s)	Method	Unit	MDL	Result
				No.1
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.
Beryllium (Be) (CAS No.: 7440-41-7)		mg/kg	2	n.d.
Arsenic (As) (CAS No.: 7440-38-2)		mg/kg	2	n.d.

Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. PFOS and its salts including:
 - CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
- 6. PFOA and its salts including:
 - CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 7. (#2) =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 μ g/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between $0.10 \,\mu g/cm^2$ and $0.13 \,\mu g/cm^2$ is considered to be inconclusive unavoidable coating variations may influence the determination.

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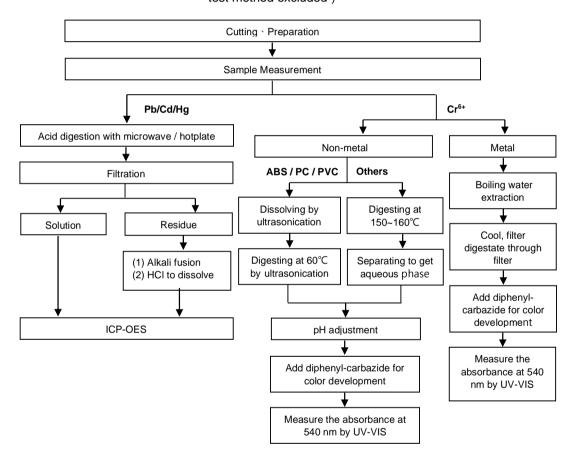


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Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)



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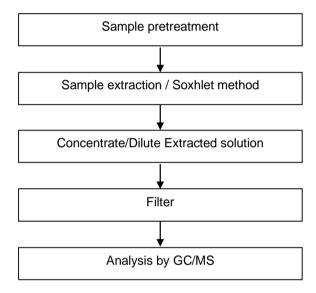
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PBB/PBDE analytical FLOW CHART



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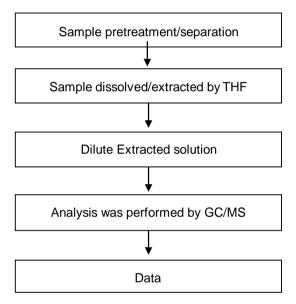


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Analytical flow chart of phthalate content

[Test method: IEC 62321-8]



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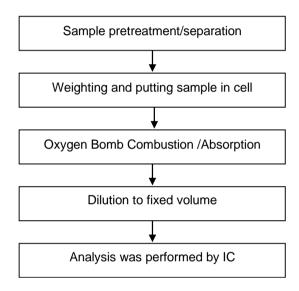
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Analytical flow chart of Halogen



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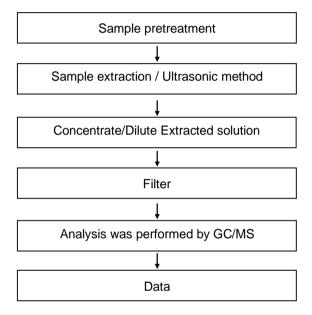


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Analytical flow chart - HBCDD



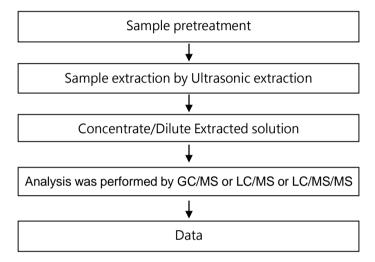
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Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)



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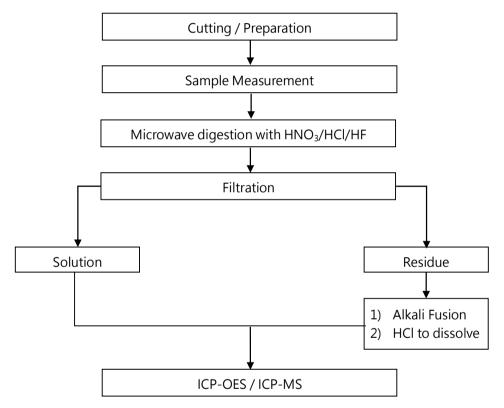
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Analytical flow chart of Elements (Heavy metal included)

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

【Reference method: US EPA 3051、US EPA 3052】



* US EPA 3051 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. *

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** End of Report **

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