

TEST REPORT No: IDHG2210021530 Date: December 06, 2022 Page 1 of 8

PT. CLARIANT ADSORBENTS INDONESIA
JL. RAYA NAROGONG, KM.14 P.10 LIMUSNUNGGAL CILEUNGSI, BOGOR 16802 - INDONESIA

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

Product Description	: CONTAINER DR II
Client's reference No.	: 2210021530
Part No.	: 32437031441
Batch / Lot No.	: IDCD28NOV2022
Buyer's Name	: -
Manufacturer / Vendor	: PT CLARIANT ADSORBENTS INDONESIA
Color	: -
Country of Origin	: INDONESIA
Country of Destination	: -

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

Sample Receiving Date	: November 28, 2022
Test Performing Period	: November 28, 2022 to December 06, 2022
Test Requested	: Selected test (s) as requested by the client.
Test Method(s) and Test Result(s)	: Please refer to the next page(s).

Test Requested

Result

Selected test(s) as requested by client :

- RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	Pass
- DMFu	Pass

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Signed for and on behalf of
PT. SGS Indonesia



Toto Waluyadi
Hardgood Lab Manager

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RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Item(s)	Unit	Method	Result	MDL	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5:2013 and performed by ICP-OES	n.d	2	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013 and performed by ICP-OES	n.d	2	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+A1:2017 and performed by ICP-OES	n.d	2	1000
Hexavalent Chromium (Cr(VI))	mg/kg	With reference to IEC 62321-7-2:2017 and performed by UV-VIS	n.d	8	1000
Sum of PBBs	mg/kg	With reference to IEC 62321-6:2015 and performed by GC-MS	n.d.	-	1000
Monobromodiphenyl	mg/kg		n.d	5	-
Dibromodiphenyl	mg/kg		n.d	5	-
Tribromodiphenyl	mg/kg		n.d	5	-
Tetrabromodiphenyl	mg/kg		n.d	5	-
Pentabromodiphenyl	mg/kg		n.d	5	-
Hexabromodiphenyl	mg/kg		n.d	5	-
Heptabromodiphenyl	mg/kg		n.d	5	-
Octabromodiphenyl	mg/kg		n.d	5	-
Nonabromodiphenyl	mg/kg		n.d	5	-
Decabromodiphenyl	mg/kg		n.d	5	-
Sum of PBDEs	mg/kg		n.d.	-	1000
Monobromodiphenyl ether	mg/kg		n.d	5	-
Dibromodiphenyl ether	mg/kg		n.d	5	-
Tribromodiphenyl ether	mg/kg		n.d	5	-
Tetrabromodiphenyl ether	mg/kg		n.d	5	-
Pentabromodiphenyl ether	mg/kg		n.d	5	-
Hexabromodiphenyl ether	mg/kg		n.d	5	-
Heptabromodiphenyl ether	mg/kg		n.d	5	-
Octabromodiphenyl ether	mg/kg		n.d	5	-
Nonabromodiphenyl ether	mg/kg		n.d	5	-
Decabromodiphenyl ether	mg/kg		n.d	5	-

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Test Item(s)	Unit	Method	Result	MDL	Limit
Diisobutyl Phthalate (DIBP)	mg/kg	With reference to IEC 62321-8:2017 and performed by GC-MS	n.d.	50	1000
Dibutyl Phthalate (DBP)	mg/kg		n.d.	50	1000
Benzyl Buthyl Phthalate (BBP)	mg/kg		n.d.	50	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	mg/kg		n.d.	50	1000

Note :

1. mg/kg = ppm ; 0.1wt%=1000 ppm

2. n.d. = Not Detected

3. MDL= Method Detection Limit

4. "-" = Not Regulated

5. The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

6. IEC 62321 series is equivalent to EN 62321 series.

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

7. The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021

Dimethyl Fumarate

Test Item(s)	Unit	Method	Result	MDL	Limit
Dimethyl Fumarate (DMFu)	mg/kg	In House Method Analysis was performed by GC-MS	n.d.	0.1	-

Note :

1. mg/kg = ppm ; 0.1wt%=1000 ppm

2. n.d. = Not Detected

3. MDL= Method Detection Limit

4. "-" = Not Regulated

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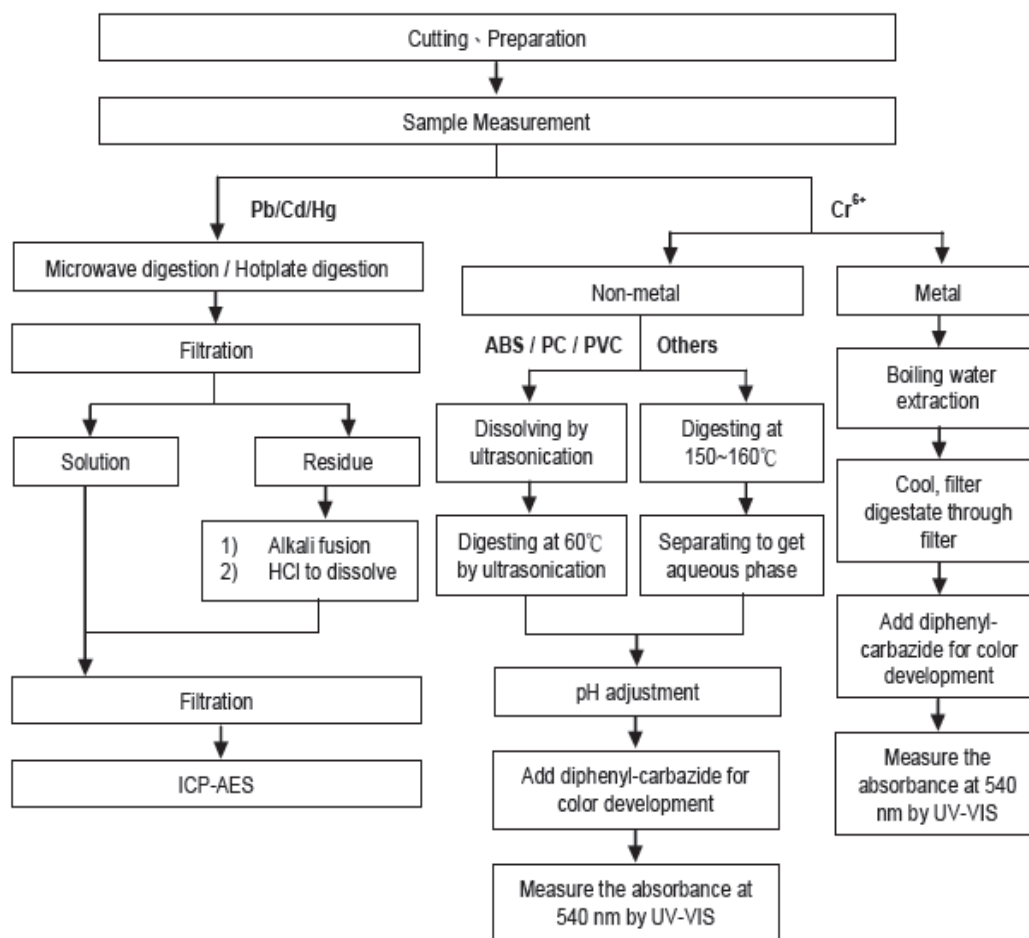
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Analytical flow chart of Heavy Metal

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

- Technician : Jony Liu
- Supervisor: Ray Chang



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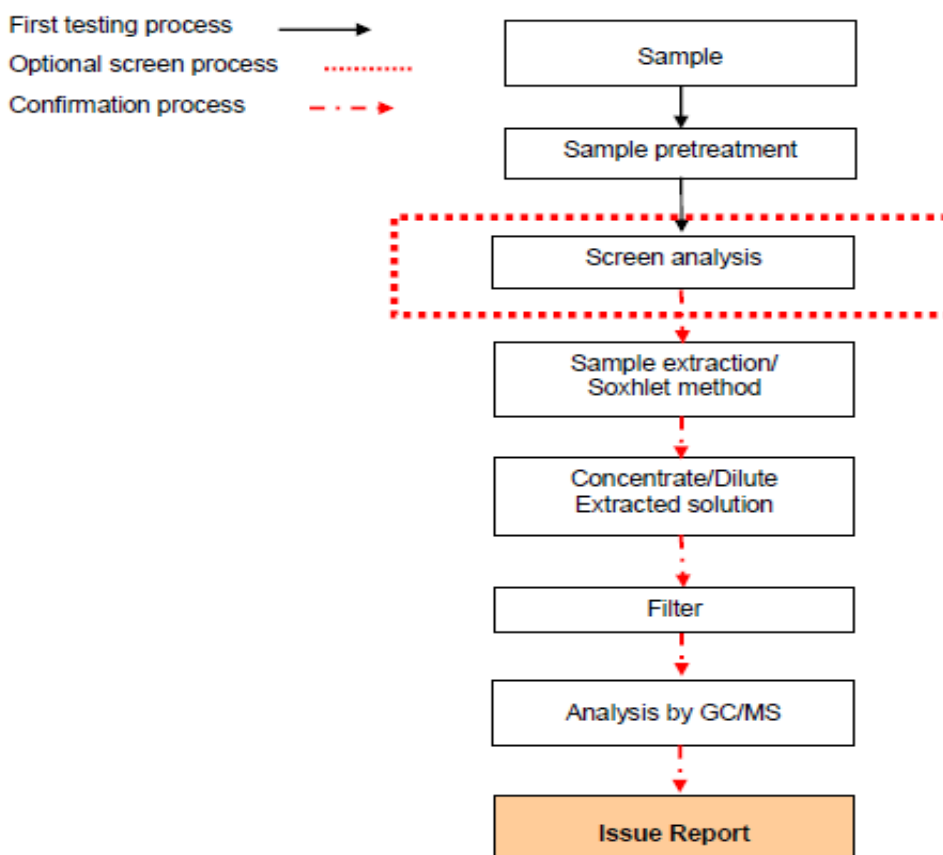
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PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement : M. Kemal Anggorojati
- 2) Name of the person in charge of measurement : Christian Tamayla



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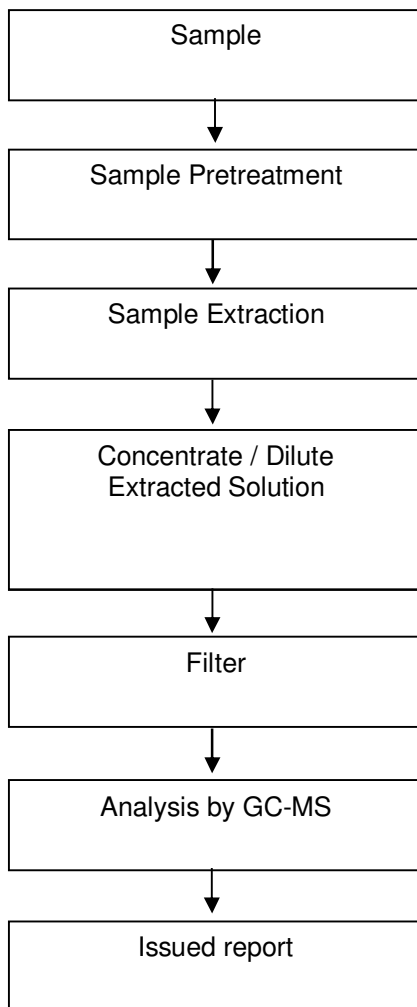
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Phthalate Analytical FLOW CHART

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Sample Picture



*****End of Report*****

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