

**Test Report** No. CANEC2202314513 Date: 09 Mar 2022 Page 1 of 29

Client Name: UF CAPACITORS FACTORY CO.,LTD.

Client Address: FACTORY BUILDING NO.22, CHANGPING JEWELRY INDUSTRIAL PARK, CHANGPING,

DONGGUAN, GUANGDONG, CHINA

Sample Name : ALUMINUM ELECTROLYTIC CAPACITORS (SMD Type)

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

SGS Job No.: CP22-004417 - GZ

Date of Sample Received: 18 Feb 2022

Testing Period: 18 Feb 2022 - 09 Mar 2022

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Sasa Zhi

Sasa Zhi

**Approved Signatory** 





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#### **Test Report** No. CANEC2202314513 Date: 09 Mar 2022 Page 2 of 29

Test Results:

## Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	CAN22-023145.001	Silver-grey metal tape(semi-product)
SN2	CAN22-023145.002	Silver-grey metal tape(semi-product)
SN3	CAN22-023145.003	Beige paper(semi-product)
SN4	CAN22-023145.005	Colorless transparent liquid(semi-product)
SN5	CAN22-023145.007	Silvery metal(semi-product)
SN6	CAN22-023145.009	Black material(semi-product)
SN7	CAN22-023145.012	Black paste(semi-product)
SN8	CAN22-023145.015	Black plastic(semi-product)
SN9	CAN22-023145.016	Colorless transparent liquid(semi-product)
SN10	CAN22-023145.017	Silver-white metal pin(semi-product)

#### Remarks:

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

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

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>005</u>	<u>009</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	12
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Report	No. CANEC2202314513		Date: (	09 Mar 2022	Page 3 of 29		
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>005</u>	<u>009</u>	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	ND	ND	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>012</u>	<u>015</u>	<u>016</u>	
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND	
Lead (Pb)	1,000	mg/kg	2	ND	9	ND	
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND	
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND	
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND	
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND	
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND	
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND	
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND	
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND	
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND	



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Test Report	No. CANEC22023145	CANEC2202314513		Date: 09 Mar 2022		4 of 29
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>	<u>015</u>	<u>016</u>
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	ND	ND

#### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) 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:12586
- (3) 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.

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

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC Test Method: 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>007</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	4	14	15
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-			ND
Monobromobiphenyl	-	mg/kg	5			ND
Dibromobiphenyl	-	mg/kg	5			ND
Tribromobiphenyl	-	mg/kg	5			ND
Tetrabromobiphenyl	-	mg/kg	5			ND
Pentabromobiphenyl	-	mg/kg	5			ND
Hexabromobiphenyl	-	mg/kg	5			ND



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Test Report	No. CANEC22023145	No. CANEC2202314513		09 Mar 2022	Page 5	of 29
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>007</u>
Heptabromobiphenyl	-	mg/kg	5			ND
Octabromobiphenyl	-	mg/kg	5			ND
Nonabromobiphenyl	-	mg/kg	5			ND
Decabromobiphenyl	-	mg/kg	5			ND
Sum of PBDEs	1,000	mg/kg	-			ND
Monobromodiphenyl ether	-	mg/kg	5			ND
Dibromodiphenyl ether	-	mg/kg	5			ND
Tribromodiphenyl ether	-	mg/kg	5			ND
Tetrabromodiphenyl ether	-	mg/kg	5			ND
Pentabromodiphenyl ether	-	mg/kg	5			ND
Hexabromodiphenyl ether	-	mg/kg	5			ND
Heptabromodiphenyl ether	-	mg/kg	5			ND
Octabromodiphenyl ether	-	mg/kg	5			ND
Nonabromodiphenyl ether	-	mg/kg	5			ND
Decabromodiphenyl ether	-	mg/kg	5			ND
Dibutyl phthalate (DBP)	1000	mg/kg	50			ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50			ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50			ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50			ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>017</u>		
Cadmium (Cd)	100	mg/kg	2	ND		
Lead (Pb)	1,000	mg/kg	2	ND		
Mercury (Hg)	1,000	mg/kg	2	ND		
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND		

#### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) 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:12586 37,25
- (3) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating
  - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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**Test Report** Page 6 of 29 No. CANEC2202314513 Date: 09 Mar 2022

### Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>005</u>	<u>007</u>
Fluorine (F)	mg/kg	50	ND	ND	ND
Chlorine (CI)	mg/kg	50	ND	ND	ND
Bromine (Br)	mg/kg	50	ND	ND	ND
lodine (I)	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>009</u>	<u>016</u>	
Fluorine (F)	mg/kg	50	ND	ND	
Chlorine (CI)	mg/kg	50	102	ND	
Bromine (Br)	mg/kg	50	ND	ND	
lodine (I)	mg/kg	50	ND	ND	

# Tetrabromobisphenol A (TBBP-A)

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>005</u>	<u>007</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	5	ND	ND	ND
Test Item(s) Tetrabromobisphenol A (TBBP-A)	<u>Unit</u> mg/kg	<u>MDL</u> 5	<i>009</i> ND	<i>012</i> ND	<i>015</i> ND
Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>016</u>		
Tetrabromobisphenol A (TBBP-A)	mg/kg	5	ND		

### **Dimethyl Fumarate (DMF)**

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>	<u>005</u>	<u>007</u>
Dimethyl fumarate(DMF)	mg/kg	0.1	ND	ND	ND



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Test Report	No. CANEC2202314513		Date: 09 Mar 2022			Page 7 of 29	
Test Item(s) Dimethyl fumarate(DMF)		<u>Unit</u> mg/kg	<u>MDL</u> 0.1	<u>009</u> ND	<i>012</i> ND	<u>015</u> ND	
Test Item(s) Dimethyl fumarate(DMF)		<u>Unit</u> mg/kg	<u>MDL</u> 0.1	<u><i>016</i></u> ND			

### Hexabromocyclododecane (HBCDD)

Test Method: SGS in house method (GZTC CHEM-TOP-073, with reference to EPA 3550C:2007), analysis was performed by GC-MS.

Test Item(s) Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	CAS NO. 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	<u>Unit</u> mg/kg	<u>MDL</u> 10	<u>003</u> ND
Test Item(s) Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	CAS NO. 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	<u>Unit</u> mg/kg	<u>MDL</u> 10	<u>005</u> ND
Test Item(s) Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	CAS NO. 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	<u>Unit</u> mg/kg	<u>MDL</u> 10	<u>007</u> ND
Test Item(s) Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	CAS NO. 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	<u>Unit</u> mg/kg	<u>MDL</u> 10	<u>009</u> ND
Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>012</u>



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Test Report	No. CANEC22023145	13	Date: 09 Mar 2	2022	Page 8	of 29
Test Item(s) Hexabromocyclododecane (HBCDD) diastereoisomers identified (α-HBCD γ-HBCDD)	•	CAS NO 25637-99-4 3194-55-0 134237-50 134237-52	4 6 -6 -7	<u>Unit</u> mg/kg	MDL 10	<u>012</u> ND
Test Item(s) Hexabromocyclododecane (HBCDD) diastereoisomers identified (α-HBCD γ-HBCDD)	•	CAS NO 25637-99-4 3194-55-1 134237-50 134237-52	- 4 6 -6 -7	<u>Unit</u> mg/kg	MDL 10	<u>015</u> ND
Test Item(s) Hexabromocyclododecane (HBCDD) diastereoisomers identified (α-HBCD γ-HBCDD)		CAS NO 25637-99-4 3194-55-1 134237-50 134237-51 134237-52	4 6 -6 -7	<u>Unit</u> mg/kg	MDL 10	<u>016</u> ND

#### 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.	<u>Unit</u>	<u>MDL</u>	003
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
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
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND



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Test Report	No. CANEC2202314513	3	Date: 09 Mar 2022	Page	9 of 29
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	003
Acenaphthene(ANA)		83-32-9	mg/kg	0.1	ND
Fluorene(FLU)		86-73-7	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Ace	enaphthene,	-	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, An	thracene,				
Fluoranthene			_		
Sum of 18 PAHs		-	mg/kg	-	ND
Test Item(s)		CAS NO.	<u>Unit</u>	MDL	<u>005</u>
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
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
Acenaphthylene(ANY)		208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)		83-32-9	mg/kg	0.1	ND
Fluorene(FLU)		86-73-7	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Ace	enaphthene,	-	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, An	thracene,				
Fluoranthene			a		ND
Sum of 18 PAHs		-	mg/kg	-	ND
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>007</u>
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



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Test Report	No. CANEC2202314513	Date: 09 Mar 2022	Page	10 of 29
Test Item(s)	CAS NO	<u>. Unit</u>	MDL	007
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
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
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Ace	enaphthene, -	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, An	thracene,			
Fluoranthene				ND
Sum of 18 PAHs	-	mg/kg	-	ND
Toot Itom(a)	CASNO	l loit	MDI	015
<u>Test Item(s)</u> Naphthalene(NAP)	<u>CAS NO</u> 91-20-3	<u>.                                    </u>	<u>MDL</u> 0.1	<u>015</u> 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
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
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Ace		mg/kg	_	ND
Fluorene, Phenanthrene, Pyrene, An	•	33		
Fluoranthene				
Sum of 18 PAHs	-	mg/kg	-	ND



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Test Report	No. CANEC2202314513	Date: 09 Mar 2022	Page 11 of 29

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>016</u>
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
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
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Acenaphthene,	-	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Anthracene,				
Fluoranthene				
Sum of 18 PAHs	-	mg/kg	-	ND



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No. CANEC2202314513

Date: 09 Mar 2022

Page 12 of 29

Client requirements

Chefit requirements					
	Category 1	Category 2		Category 3	
Parameter (mg/kg)	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	category 1, long-term co than 30s) or	ontact (more short-term ntact <sup>o</sup> with skin itended or	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.	
	or -for the use by children <sup>a,b</sup> up to 3 years of age.	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
Sum of 7 PAHs (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	<1	150	< 2	< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

### Note:

#### Remark:

The classification of material categories is refer to AfPS GS 2019:01 PAK issued on 10 April, 2020. The Acenaphthylene (ANY), Acenaphthene (ANA) and Fluorene (FLU) are not in the scope of AfPS 2019:1 PAK which is additionally in scope of AfPS GS 2014:01 PAK and recommended in connection with §30 LFGB product safety requirements.

### Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.



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<sup>&</sup>lt;sup>a</sup> A "Child" is legally defined as a person before reaching the age of 14 years.

<sup>&</sup>lt;sup>b</sup> Use by children includes both active and passive contact by children.

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.



restriction	NO. CANECZZOZ	2314313	Date. 09 Iviai 2022	гаус	5 13 01 29
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctanoic acid (PFOA) and its	s salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^		1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA	<b>A</b> )	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonami	de(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide	e (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfona-ethanol(MeFOSE)	imido)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonam- ethanol(EtFOSE)	iido)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a	nd its derivatives	-	mg/kg	-	ND
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Perfluorooctanoic acid (PFOA) and its	s salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^		1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA	A)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonami	de(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide	e (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfona- ethanol(MeFOSE)	ımido)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonam- -ethanol(EtFOSE)	ido)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a	nd its derivatives	-	mg/kg	-	ND
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>007</u>
Perfluorooctanoic acid (PFOA) and its	s salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^		1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA	A)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonami	de(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide	e (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfona- ethanol(MeFOSE)	ımido)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonam- -ethanol(EtFOSE)	ido)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a	nd its derivatives	-	mg/kg	-	ND
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>009</u>
Perfluorooctanoic acid (PFOA) and its	s salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^		1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA	<b>A</b> )	754-91-6	mg/kg	0.010	ND

No. CANEC2202314513

Date: 09 Mar 2022

Page 13 of 29



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Test Report	No. CANEC220	2314513	Date: 09 Mar 2022	Page	14 of 29
Test Item(s)		CAS NO.	Unit	<u>MDL</u>	009
N-methylperfluoro-1-octanesulfonam	ide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamid	e (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfon-ethanol(MeFOSE)	amido)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonar-ethanol(EtFOSE)	nido)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a	and its derivatives	-	mg/kg	-	ND
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>012</u>
Perfluorooctanoic acid (PFOA) and i	ts salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS)	<b>\</b>	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOS	A)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonam	ide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamid	e (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfon -ethanol(MeFOSE)	amido)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonar-ethanol(EtFOSE)	nido)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a	and its derivatives	-	mg/kg	-	ND
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>015</u>
Perfluorooctanoic acid (PFOA) and i	ts salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS)	<b>\</b>	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOS	A)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonam	ide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamid	e (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfon -ethanol(MeFOSE)	amido)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonar-ethanol(EtFOSE)	nido)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) a	and its derivatives	-	mg/kg	-	ND
Test Item(s)		CAS NO.		MDL	<u>016</u>
Perfluorooctanoic acid (PFOA) and i		335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS)		1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOS	(A)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonam	ide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamid	e (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfon -ethanol(MeFOSE)	amido)	24448-09-7	mg/kg	0.010	ND



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**Test Report** Page 15 of 29 No. CANEC2202314513 Date: 09 Mar 2022

Test Item(s) CAS NO. MDL 016 2-(N-ethylperfluoro-1-octanesulfonamido) 1691-99-2 0.010 mg/kg ND -ethanol(EtFOSE) Perfluorooctane sulfonates (PFOS) and its derivatives mg/kg ND

#### Notes:

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

Remark: Results & photo(s) of this report refer to test report CANEC2202314503.



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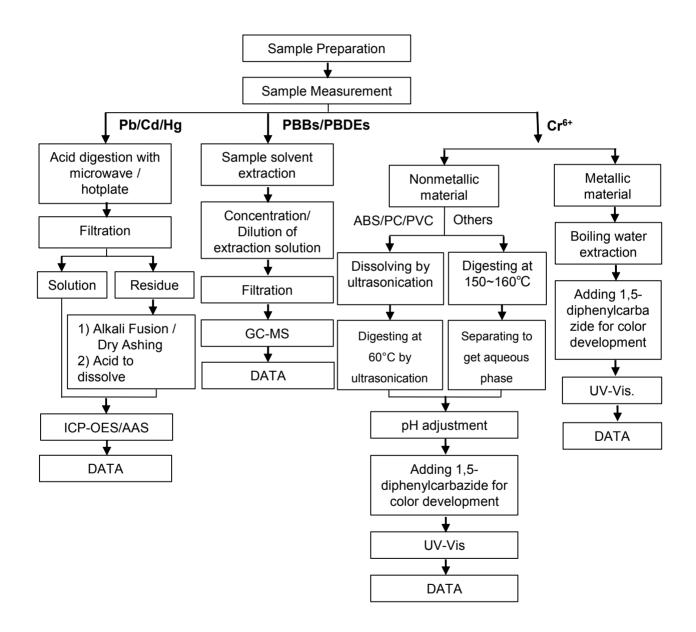
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Page 16 of 29

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# Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).





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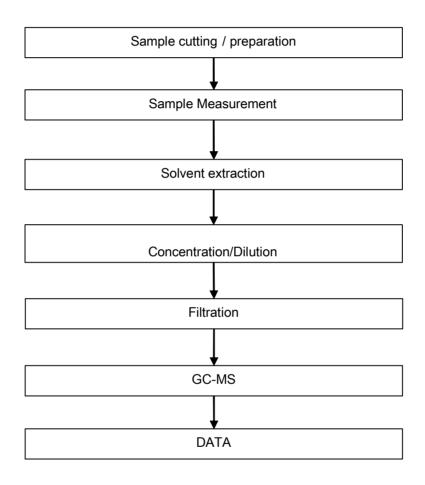


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# **Phthalates Testing Flow Chart**





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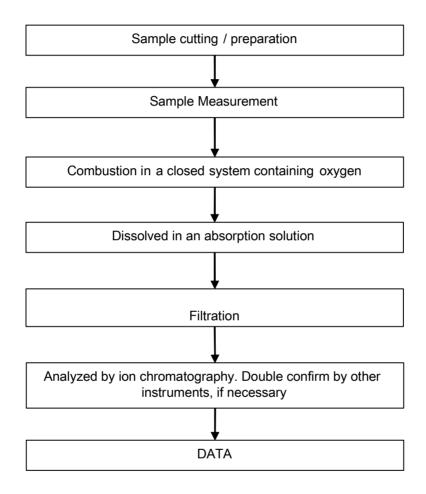
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Page 18 of 29

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# **Halogen Testing Flow Chart**





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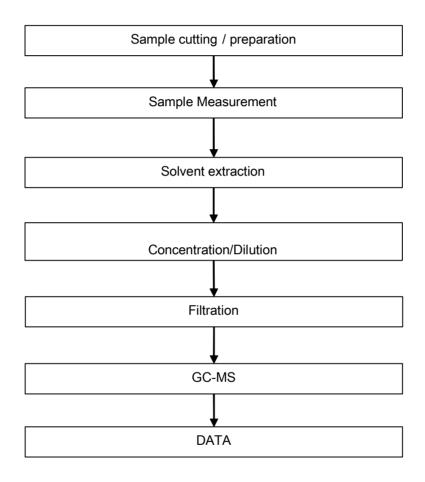


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# **HBCDD Testing Flow Chart**





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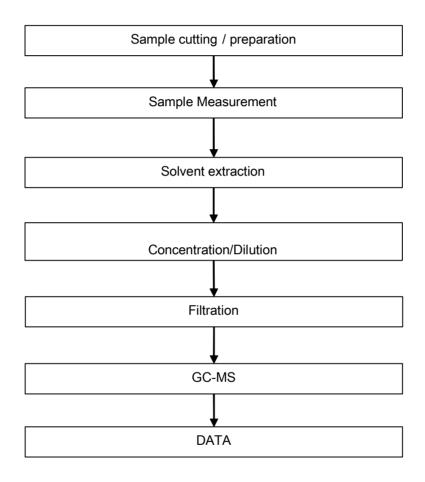
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Page 20 of 29

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# **PAHs Testing Flow Chart**





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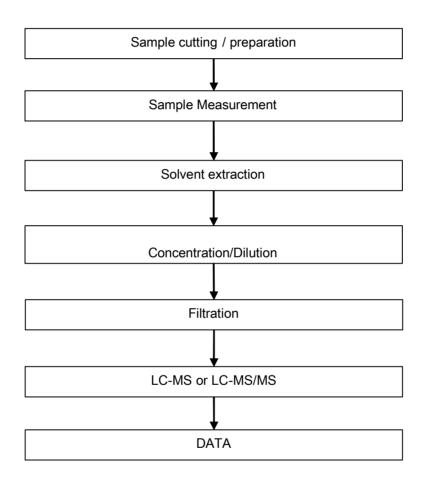
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Page 21 of 29

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# PFOA / PFOS Testing Flow Chart





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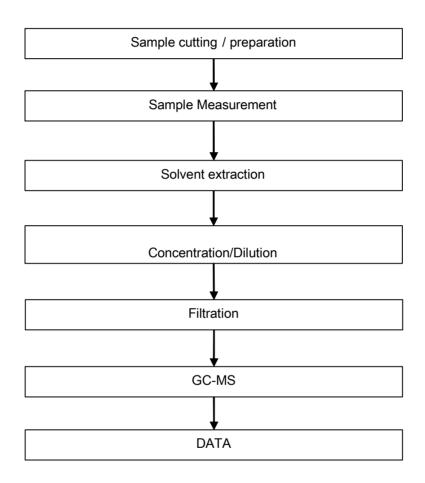
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# **Dimethyl Fumarate Testing Flow Chart**





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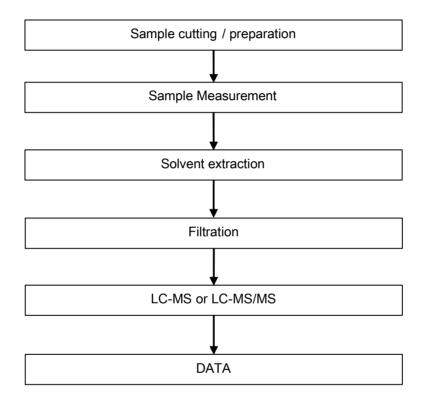
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# **TBBP-A Testing Flow Chart**





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**Test Report** No. CANEC2202314513 Date: 09 Mar 2022 Page 28 of 29







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No. CANEC2202314513

Date: 09 Mar 2022

Page 29 of 29



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