

Applicant: Zhejiang Wanmei Toy Co., Ltd

Applicant Address: Binjiang Industrial Area, Dongcheng Street, Yongjia County, Wenzhou City, Zhejiang Province, China

The following samples were submitted and identified on behalf of the clients as

Sample Name: Functional Climbing Slide Set

Sample Description: Functional Climbing Slide Set

Model: WM21B392

Sample quantity : 1

Requested Age Grading: 3-6 years old

Labeled Age Grading: 3-6 years old

Test age: 3 years old and up

CPST Internal Reference No.: C220104106

Sample Received Date: Jan 04, 2022

Test Period: Jan 04, 2022 to Jan 17, 2022

Test Method: Please refer to next pages.

Test Result: Please refer to next pages.

Signed for and on behalf of
Eurones (Dongguan) Consumer Products Testing Service Co., Ltd



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CONCLUSION :

<u>TESTED SAMPLES</u>	<u>TEST ITEM</u>	<u>RESULT</u>
Functional Climbing Slide Set	1. In accordance with the requirements of Europe toy safety Directive 2009/48/EC, to perform the related testing:	
	1) EN 71-1:2014+A1:2018 – Mechanical and Physical Properties	PASS
	2) EN 71-2:2020 – Flammability	PASS
	3) EN 71-3:2019+A1:2021 – Migration of certain elements	PASS
	2. EN 71-8:2018 Safety of toys - Part 8: Activity toys for domestic use	PASS
	3. Lead (Pb) content - Regulation (EC) No 1907/2006 Annex XVII entry 63, and its amendment regulation (EU) No 2015/628.	PASS
	4. Cadmium (Cd) content - Regulation (EC) No 1907/2006 Annex XVII entry 23 and its amendments.	PASS
	5. Phthalates Content - The entries 51 & 52 in Annex XVII of the REACH Regulation (EC) NO. 1907/2006 and its amending directive (EU) 2018/2005	PASS

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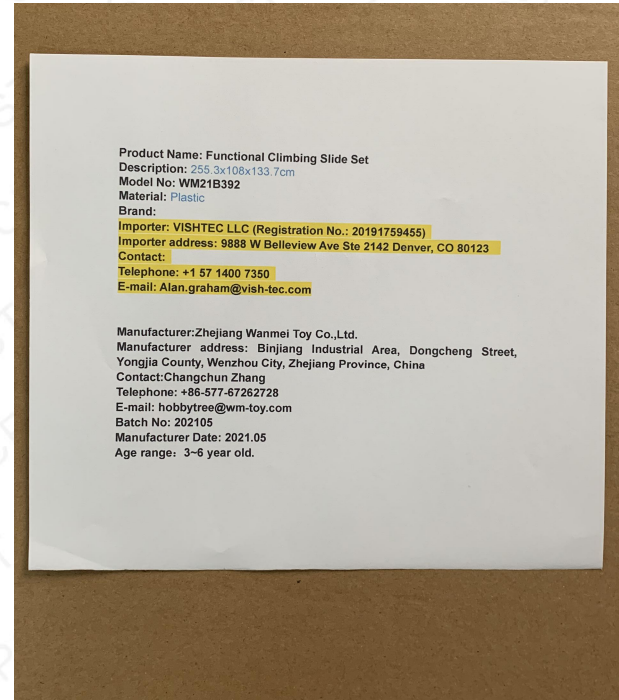
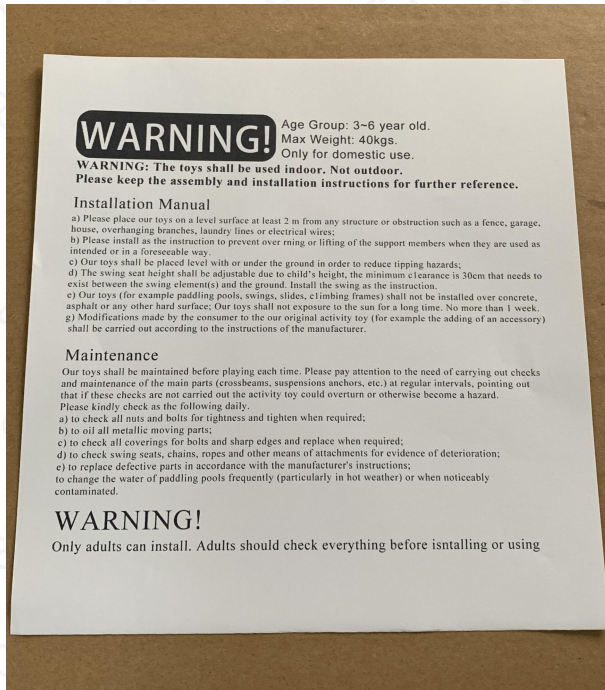


Photo of the Submitted Sample



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Test Result(s):

Description of Specimen	No.1	Functional Climbing Slide Set
	No.2	Grey plastic (plastic nut)
	No.3	Green plastic (slide)
	No.4	White plastic (slide)
	No.5	Brown plastic (guardrail)
	No.6	Coating (Hanging Bar)
	No.7	White woven rope (drop rope)

1.1) EN 71-1:2014+A1:2018 – Mechanical and Physical Properties

Section	Description	Result
		No.1
4	General requirement	---
4.1	Material cleanliness (by visual assessment)	Pass
4.2	Assembly	Pass
4.3	Flexible plastics sheeting	N.A.
4.4	Toy bags	N.A.
4.5	Glass	N.A.
4.6	Expanding materials	N.A.
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	N.A.
4.10	Parts moving against each other	---
4.10.1	Folding and sliding mechanisms	N.A.
4.10.2	Driving mechanisms	N.A.
4.10.3	Hinges	N.A.
4.10.4	Springs	N.A.
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N.A.
4.12	Balloons	N.A.
4.13	Cords of toy kites and other flying toys	N.A.
4.14	Enclosures	---
4.14.1	Toys which a child can enter	N.A.
4.14.2	Masks and helmets	N.A.
4.15	Toys intended to bear the mass of a child	---
4.15.1	Toys propelled by the child or by other means	N.A.

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<u>Section</u>	<u>Description</u>	<u>Result</u>
		No.1
4.15.2	Toy bicycles	N.A.
4.15.3	Rocking horses and similar toys	N.A.
4.15.4	Toys not propelled by a child	Pass
4.15.5	Toy scooters.	N.A.
4.16	Heavy immobile toys	N.A.
4.17	Projectiles	---
4.17.1	General	N.A.
4.17.2	All projectiles	N.A.
4.17.3	Projectile toys with stored energy	N.A.
4.17.4	Certain projectile toys without stored energy	N.A.
4.18	Aquatic toys and inflatable toys	N.A.
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N.A.
4.20	Acoustics	N.A.
4.21	Toys containing a non-electrical heat source	N.A.
4.22	Small balls	N.A.
4.23	Magnets	---
4.23.1	General	N.A.
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	N.A.
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	N.A.
4.24	Yo-yo balls	N.A.
4.25	Toys attached to food	N.A.
4.26	Toy disguise costumes	N.A.
4.27	Flying toys	---
4.27.1	General	N.A.
4.27.2	Rotors and propellers on flying toys	N.A.
4.27.3	Rotors and propellers on remote controlled flying toys	N.A.
5	Toys intended for children under 36 months.	---
5.1	General requirements	N.A.
5.1a	Small part requirement on toys & removable components	N.A.
5.1b	Abuse test (see test method 8)	N.A.
5.1c	Potential hazardous metal points and wires with a cross section of 2mm or less	N.A.
5.1d	Large and bulky toys	N.A.
5.1e	Glued wooden toys and toys with glued-on plastic decals	N.A.

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Section	Description	Result
		No.1
5.1f	The casing of toys intended for children too young to sit up unaided	N.A.
5.1g	Foam toys and toys containing accessible foam	N.A.
5.2	Soft-filled toys and soft-filled parts of a toy	N.A.
5.3	Plastic sheeting	N.A.
5.4	Cords, chains and electrical cables in toys	---
5.4.1	General	N.A.
5.4.2	Cords and chains in toys intended for children under 18 months	N.A.
5.4.3	Cords and chains in toys intended for children of 18 months or over but under 36 months	N.A.
5.4.4	Fixed loops, tangled loops and nooses	N.A.
5.4.5	Cords and chains on pull along toys	N.A.
5.4.6	Electrical cable	N.A.
5.4.7	Cross-sectional dimension of certain cords	N.A.
5.4.8	Self-retracting cords	N.A.
5.4.9	Toys attached to or intended to be strung across a cradle, cot or perambulator	N.A.
5.5	Liquid-filled toys	N.A.
5.6	Speed limitation of electrically-driven ride-on toys	N.A.
5.7	Glass and porcelain	N.A.
5.8	Shape and size of certain toys	N.A.
5.9	Toys comprising monofilament fibres	N.A.
5.10	Small balls	N.A.
5.11	Play figures	N.A.
5.12	Hemispheric-shaped toys	N.A.
5.13	Suction cups	N.A.
5.14	Straps intended to be worn fully or partially around the neck	N.A.
5.15	Sledge with cords for pulling	N.A.
6	Packaging	N.A.
7	Warnings, markings and instructions for use	---
7.1	General	Pass
7.2	Toys not intended for children under 36 months	N.A.
7.3	Latex Balloons	N.A.
7.4	Aquatic toys	N.A.
7.5	Functional Toys	N.A.
7.6	Hazardous sharp functional edges and points	N.A.

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<u>Section</u>	<u>Description</u>	<u>Result</u>
		No.1
7.7	Projectile toys	N.A.
7.8	Imitation protective masks and helmets	N.A.
7.9	Toy kites	N.A.
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	---
7.10.1	Roller skates, inline skates and skateboards	N.A.
7.10.2	Ride-on toys without a braking device	N.A.
7.10.3	Electrically-driven ride-on toys	N.A.
7.10.4	Instructions for use	N.A.
7.11	Toys otherwise intended to be strung across a cradle, cot, or perambulator	N.A.
7.12	Liquid-filled teethingers	N.A.
7.13	Percussion caps specifically designed for use in toys	N.A.
7.14	Acoustics	N.A.
7.15	Toy bicycle	N.A.
7.16	Toys intended to bear the mass of child	N.A.
7.17	Toys comprising monofilament fibres	N.A.
7.18	Toy scooters	N.A.
7.19	Rocking horses and similar toys	N.A.
7.20	Magnetic/electrical experimental sets	N.A.
7.21	Toys with electrical cables exceeding 300 mm in length	N.A.
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N.A.
7.23	Toys intended to be attached to a cradle, cot or perambulator	N.A.
7.24	Sledge with cords for pulling	N.A.
7.25	Flying toys	---
7.25.1	Flying toys	N.A.
7.25.2	Remote controlled flying toys	N.A.
7.26	Improvised projectiles	N.A.
8	Test Methods	---
8.3	Torque Test	N.A.
8.4	Tension Test	N.A.
8.5	Drop Test	N.A.
8.6	Tip over Test	N.A.
8.7	Impact Test	N.A.
8.8	Compression Test	N.A.
8.9	Soaking Test	N.A.

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<u>Section</u>	<u>Description</u>	<u>Result</u>
		No.1
8.13	Flexure Test	N.A.
8.34	Tension test for magnets	N.A.

N.A. = Not Applicable

The sample was resubmitted by client dated on Jan 17, 2022

1.2)EN 71-2:2020 – Flammability

<u>Section</u>	<u>Description</u>	<u>Result</u>
		No.1
4	Requirements	
4.1	General requirements	Pass
4.2	Toys to be worn on the head	N.A.
4.3	Toys disguise costumes and toys intended to be worn by a child in play	N.A.
4.4	Toys intended to be entered by a child	N.A.
4.5	Soft filled toys	N.A.

N.A. = Not Applicable

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1.3)EN 71-3:2019+A1:2021 – Migration of certain elements

Test Method: With reference to EN 71-3:2019+A1:2021, analysis was performed by Instruments.

Test Items	Unit	Result						MDL
		Category III						
		No.2	No.3	No.4	No.5	No.6	No.7	
Soluble Aluminum(Al)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Soluble Antimony(Sb)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02
Soluble Arsenic(As)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02
Soluble Barium(Ba)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Soluble Boron(B)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Soluble Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05
Soluble trivalent chromium(Cr ³⁺)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05
Soluble hexavalent chrome(Cr ⁶⁺)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02
Soluble Cobalt (Co)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02
Soluble Copper (Cu)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Soluble Lead (Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05
Soluble Manganese (Mn)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Soluble Mercury (Hg)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02
Soluble Nickel (Ni)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05
Soluble Selenium (Se)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2
Soluble strontium (Sr)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Soluble Tin (Sn)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Soluble Organotin	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Soluble Zinc (Zn)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Conclusion	PASS							

Note:

1. mg/kg =milligram per kilogram = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

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Annex

Soluble Element	Limit (mg/kg)		
	Category I	Category II	Category III
	Dry, brittle, powder-like or pliable toy material	Liquid or sticky toy material	Scraped-off toy material
Soluble Aluminum(Al)	2250	560	28130
Soluble Antimony(Sb)	45	11.3	560
Soluble Arsenic(As)	3.8	0.9	47
Soluble Barium(Ba)	1500	375	18750
Soluble Boron(B)	1200	300	15000
Soluble Cadmium(Cd)	1.3	0.3	17
Soluble trivalent chromium(Cr^{3+})	37.5	9.4	460
Soluble hexavalent chrome (Cr^{6+})	0.02	0.005	0.053
Soluble Cobalt (Co)	10.5	2.6	130
Soluble Copper (Cu)	622.5	156	7700
Soluble Lead (Pb)	2.0	0.5	23
Soluble Manganese (Mn)	1200	300	15000
Soluble Mercury (Hg)	7.5	1.9	94
Soluble Nickel (Ni)	75	18.8	930
Soluble Selenium (Se)	37.5	9.4	460
Soluble strontium (Sr)	4500	1125	56000
Soluble Tin (Sn)	15000	3750	180000
Soluble Organotin	0.9	0.2	12
Soluble Zinc (Zn)	3750	938	46000

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2. EN 71-8:2018 Safety of toys - Part 8: Activity toys for domestic use

Section	Description	Results
4	Requirements	---
4.1	General	---
4.1.1	Assembly	Pass
4.1.2	Static strength	Pass
4.1.3	Maximum height	Pass
4.1.4	Corners and edges	Pass
4.1.5	Protruding parts	Pass
4.1.6	Diameter of ropes and other means of suspension	Pass
4.2	Barriers, handrails and ladders and similar means of access to activity toys	---
4.2.1	Barriers and handrails preventing a child from falling down	N.A.
4.2.2	Ladders and similar means of access to activity toys	N.A.
4.3	Entrapment	---
4.3.1	Entrapment of head and neck	Pass
4.3.2	Entrapment of clothing and hair	Pass
4.3.3	Entrapment of feet	Pass
4.3.4	Entrapment of fingers	Pass
4.4	Stability of activity toys other than slides, swings and activity toys with crossbeams, and see-saws	---
4.4.1	General	N.A.
4.4.2	Stability of activity toys with a free height of fall of 600 mm or less	N.A.
4.4.3	Stability of activity toys with a free height of fall of more than 600 mm	N.A.
4.5	Slides	---
4.5.1	General	N.A.
4.5.2	Stability of slides	N.A.
4.5.3	Retaining sides for slides	N.A.
4.5.4	Starting, sliding and run-out sections on slides	N.A.
4.6	Swings	Pass
4.6.1	Stability of swings and other activity toys with crossbeams	Pass
4.6.2	Static strength of crossbeams, swing devices and suspension connectors	Pass
4.6.3	Swings intended for children under 36 months	N.A.
4.6.4	Minimum clearance between adjacent swing elements, and adjacent structures	N.A.

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Section	Description	Results
4.6.5	Lateral stability of swing elements	N.A.
4.6.6	Minimum clearance between swing elements and the ground	Pass
4.6.7	Suspension connectors and swing devices	N.A.
4.6.8	Impact, geometry and design of swing elements	Pass
4.7	See-saws	N.A.
4.7.1	Stability of see-saws	N.A.
4.7.2	Seat/stand height	N.A.
4.7.3	Restraint of motion	N.A.
4.7.4	Pinching and crushing of fingers and toes	N.A.
4.7.5	Hand supports	N.A.
4.8	Carousels and rocking activity toys	N.A.
4.9	Paddling pools	N.A.
4.9.1	Static strength of paddling pools with non-inflatable walls	N.A.
4.9.2	Paddling pools with inflatable walls	N.A.
5	Warnings, markings, and instructions	---
5.1	Warnings and markings	Pass
5.1.1	General	Pass
5.1.2	Paddling pools	N.A.
5.2	Assembly and installation instructions	Pass
5.3	Maintenance	Pass

N.A. = Not Applicable

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3. Lead (Pb) content - Regulation (EC) No 1907/2006 Annex XVII entry 63, and its amendment regulation (EU) No 2015/628.

Test Method: With reference to IEC 62321-5:2013, analysis was performed by ICP-OES.

Test Item	Unit	Result						MDL	Limit
		No.2	No.3	No.4	No.5	No.6	No.7		
Lead (Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10	500

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (< MDL).
3. MDL = Method Detection Limit.

4. Cadmium(Cd) content - Regulation (EC) No 1907/2006 Annex XVII entry 23 and its amendments.

Test Method: With reference to IEC 62321-5:2013, analysis was performed by ICP-OES.

Test Item	Unit	Result						MDL	Limit
		No.2	No.3	No.4	No.5	No.6	No.7		
Cadmium (Cd)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2	100

Note:

1. mg/kg = milligram per kilogram = ppm
2. MDL = Method Detection Limit.
3. N.D. = Not Detected (< MDL).

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5. Phthalates Content - The entries 51& 52 in Annex XVII of the REACH Regulation (EC) NO.1907/2006 and its amending directive (EU) 2018/2005

Test Method: With reference to EN 14372:2004, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	CAS No.	Unit	Results			MDL	Limit
			No.2	No.3	No.4		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%(w/w)	N.D.	N.D.	N.D.	0.005	/
Di-butyl phthalate (DBP)	84-74-2	%(w/w)	N.D.	N.D.	N.D.	0.005	/
Butyl benzyl phthalate (BBP)	85-68-7	%(w/w)	N.D.	N.D.	N.D.	0.005	/
Di-isobutyl phthalate (DIBP)	84-69-5	%(w/w)	N.D.	N.D.	N.D.	0.005	/
Total (DEHP+ DBP+ BBP+ DIBP)	/	%(w/w)	N.D.	N.D.	N.D.	/	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%(w/w)	N.D.	N.D.	N.D.	0.010	/
Di-iso-decyl phthalate (DIDP)	26761-40-0 68515-49-1	%(w/w)	N.D.	N.D.	N.D.	0.010	/
Di-n-octyl phthalate (DNOP)	117-84-0	%(w/w)	N.D.	N.D.	N.D.	0.005	/
Total (DINP+DIDP+ DNOP)	/	%(w/w)	N.D.	N.D.	N.D.	/	0.1

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Test Item	CAS No.	Unit	Results			MDL	Limit
			No.5	No.6	No.7		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%(w/w)	N.D.	N.D.	N.D.	0.005	/
Di-butyl phthalate (DBP)	84-74-2	%(w/w)	N.D.	N.D.	N.D.	0.005	/
Butyl benzyl phthalate (BBP)	85-68-7	%(w/w)	N.D.	N.D.	N.D.	0.005	/
Di-isobutyl phthalate (DIBP)	84-69-5	%(w/w)	N.D.	N.D.	N.D.	0.005	/
Total (DEHP+ DBP+ BBP+ DIBP)	/	%(w/w)	N.D.	N.D.	N.D.	/	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%(w/w)	N.D.	N.D.	N.D.	0.010	/
Di-iso-decyl phthalate (DIDP)	26761-40-0 68515-49-1	%(w/w)	N.D.	N.D.	N.D.	0.010	/
Di-n-octyl phthalate (DNOP)	117-84-0	%(w/w)	N.D.	N.D.	N.D.	0.005	/
Total (DINP+DIDP+ DNOP)	/	%(w/w)	N.D.	N.D.	N.D.	/	0.1

Note:

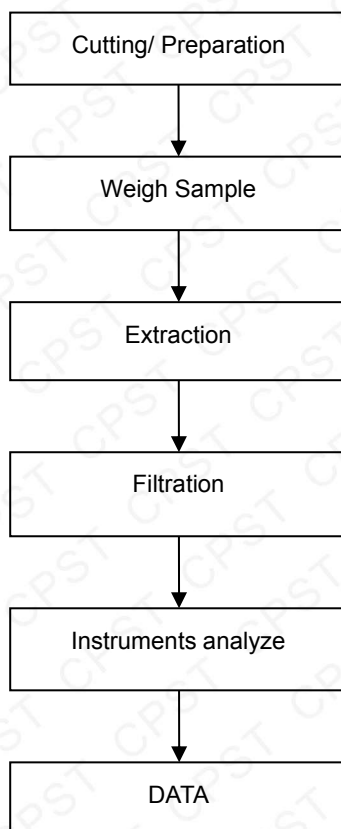
1. % = percentage by weight.
2. 0.0001% = 1 mg/kg.
3. MDL = Method Detection Limit.
4. N.D. = Not Detected (< MDL).

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.

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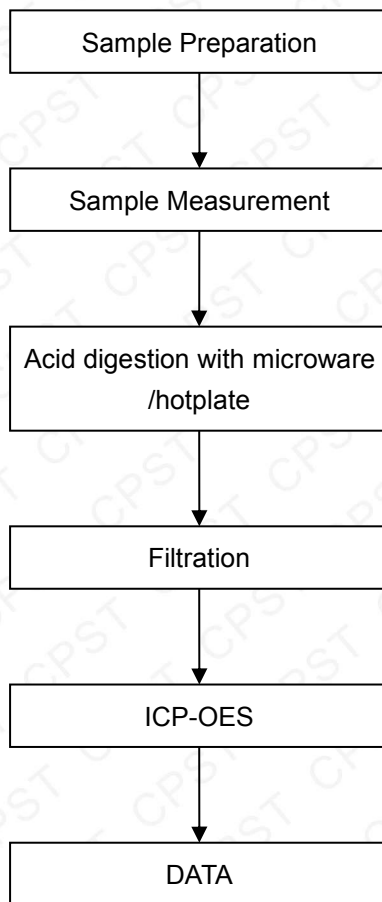
Migration of certain elements Testing Flow Chart



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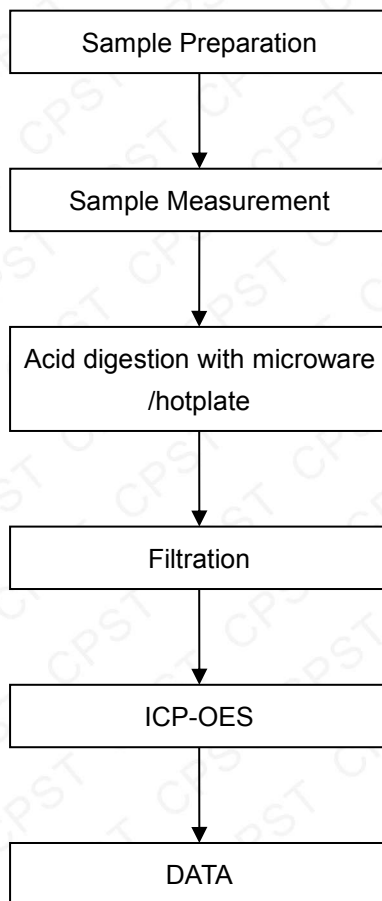
Lead Testing Flow Chart



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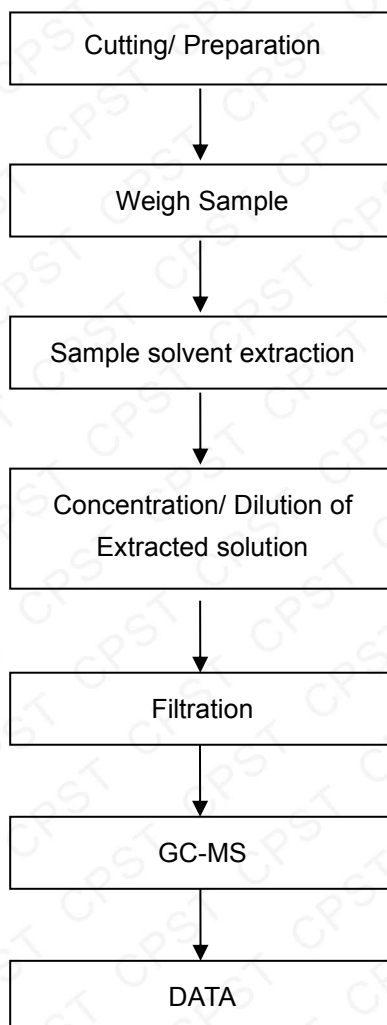
Cadmium Testing Flow Chart



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Phthalates Testing Flow Chart



*** End of Report ***

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