

Test Report

No.: 68.452.24.3967.02

Date: 2024-11-07



Applicant: Fujian Zhangping D-road Forestry Co.,Ltd
Address: Fushan Industry District,Zhangping City,Fujian,China,364400
Product Name: Kid's Sandbox 2536
Country of Origin: China
Receipt Date of Sample: 2024-09-18, 2024-10-15, 2024-10-21, 2024-10-30
Date of Testing: 2024-10-08 ~ 2024-11-05
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical	Pass
2. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials	Pass
3. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Textile Materials	Pass
4. ASTM F963-23 Section 4.3.5.1 - Total Lead Content Test (Paint and Similar Surface-Coating Materials)	Pass
5. ASTM F963-23 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)	Pass
6. ASTM F963-23 Section 4.3.5.1 & Section 4.3.5.2 - Soluble Heavy Elements	Pass
7. ASTM F963-23 Section 4.3.8 - Phthalates	Pass
8. 16 CFR Part 1303 / CPSIA section 101(f) - Total Lead Content (surface coating)	Pass
9. 15 U.S.C. 1278a / CPSIA section 101(a)(2) - Total lead content (Substrate)	Pass
10. CPSIA, § 108, 16 CFR 1307- Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. The test samples were specified by the client.

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Note:

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.
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For further details, please see "Testing and certification regulation", chapter A-3.4
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- (2) The results relate only to the items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:
 - "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
 - "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.

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Description of Tested Subject:

Sample	Description	Photo
A	Whole product	

T. No	Sample	Description
T1	001	Whole product (Sandpit 2536)
T2	002	Iridescent metal (Thin screw A)
T3	014	Beige plastic (Parts H)
T4	015	Green plastic (Parts J)
T5	016	Red plastic (Bucket)
T6	017	White plastic (Bucket)
T7	018	Black non-woven fabric (Body)
T8	019	Blue coating (Mainbody)
T9	020	White coating (Rod, board, pattern)
T10	021	Black coating (Board, lettering)
T11	022	Grey coating (Mainbody)
T12	023	Red coating (Pattern)
T13	024	Green coating (Pattern)
T14	025	Transparent plastic (Parts H)

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Test Result(s):

1. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical

Sample	001
Labelled age range	3-7years
Requested age range	3-7years
Age range in testing	Over 2 years
Age Group Assessed As per Age Guideline	Over 2 years

Clause	Requirement	Evaluation
4	Safety Requirements	--
4.1	Material Quality	P
4.6	Small Objects	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
4.11	Nails and Fasteners	P
4.12	Plastic Film	P
4.15	Stability and Over-load Requirements	P
5	Labeling Requirements	--
5.1.2	Tracking Label	P
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirements	P
5.8	Toys Intended to be Assembled By an Adult	P
5.15	Promotional Materials	P
6	Instructional Literature	--
6.1	Definition and Description	P
6.4	Toys Intended to be Assembled By an Adult	P
7	Producer's Markings	--
7.1	Name and Address of the Producer or Distributor	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Note:

Only applicable sections were shown.

2. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials

As per Section 4.2 of ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

Sample: 001

Result: Did Not Ignite

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3. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Textile Materials

As per Section 4.2 of ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

Sample: 001

Result: Did Not Ignite

4. ASTM F963-23 Section 4.3.5.1 - Total Lead Content Test (Paint and Similar Surface-Coating Materials)

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
019	mg/kg	10.0	90	14.5	Pass
020	mg/kg	10.0	90	14.9	Pass
021	mg/kg	10.0	90	22.9	Pass
022	mg/kg	10.0	90	ND	Pass
023	mg/kg	10.0	90	ND	Pass
024	mg/kg	10.0	90	ND	Pass

Remark:

1. The test results of the sample 019 is transferred from sample 020 of report 68.452.24.3970.
2. The test results of the sample 020 is transferred from sample 021 of report 68.452.24.3970.
3. The test results of the sample 021 is transferred from sample 022 of report 68.452.24.3970.
4. The test results of the sample 022 is transferred from sample 008 of report 68.452.24.3968.
5. The test results of the sample 023 is transferred from sample 009 of report 68.452.24.3968.

5. ASTM F963-23 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)

Test with reference to CPSC-CH-E1001-08.3:2012 or CPSC-CH-E1002-08.3:2012, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002	mg/kg	10.0	100	ND	Pass
014+015+016	mg/kg	10.0	100	ND	Pass
017	mg/kg	10.0	100	ND	Pass
018	mg/kg	10.0	100	ND	Pass

Remark:

1. The test results of the sample 002 is transferred from sample 008 of report 68.452.24.3970.
2. The test results of the sample 018 is transferred from sample 002 of report 68.452.24.3960.

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6. ASTM F963-23 Section 4.3.5.1 & Section 4.3.5.2 - Soluble Heavy Elements

Test with reference to ASTM F963-23 Section 8.3, determination by ICP-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			014	015
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	ND	ND
Soluble Cadmium (Cd)	5.0	75	ND	ND
Soluble Chromium (Cr)	5.0	60	ND	ND
Soluble Lead (Pb)	5.0	90	ND	ND
Soluble Mercury (Hg)	5.0	60	ND	ND
Soluble Selenium (Se)	5.0	500	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			016	017
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	ND	ND
Soluble Cadmium (Cd)	5.0	75	ND	ND
Soluble Chromium (Cr)	5.0	60	ND	ND
Soluble Lead (Pb)	5.0	90	ND	ND
Soluble Mercury (Hg)	5.0	60	ND	ND
Soluble Selenium (Se)	5.0	500	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			018	019
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	ND	ND
Soluble Cadmium (Cd)	5.0	75	ND	ND
Soluble Chromium (Cr)	5.0	60	ND	ND
Soluble Lead (Pb)	5.0	90	ND	ND
Soluble Mercury (Hg)	5.0	60	ND	ND
Soluble Selenium (Se)	5.0	500	ND	ND
Conclusion			Pass	Pass

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Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			020	021
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	ND	21.1
Soluble Cadmium (Cd)	5.0	75	ND	ND
Soluble Chromium (Cr)	5.0	60	ND	ND
Soluble Lead (Pb)	5.0	90	ND	ND
Soluble Mercury (Hg)	5.0	60	ND	ND
Soluble Selenium (Se)	5.0	500	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			022	023
Soluble Antimony (Sb)	5.0	60	ND	ND
Soluble Arsenic (As)	2.5	25	ND	ND
Soluble Barium (Ba)	5.0	1000	ND	253
Soluble Cadmium (Cd)	5.0	75	ND	ND
Soluble Chromium (Cr)	5.0	60	ND	ND
Soluble Lead (Pb)	5.0	90	ND	8.04
Soluble Mercury (Hg)	5.0	60	ND	ND
Soluble Selenium (Se)	5.0	500	ND	ND
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 023 is 10.10 mg

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			024
Soluble Antimony (Sb)	5.0	60	ND
Soluble Arsenic (As)	2.5	25	ND
Soluble Barium (Ba)	5.0	1000	38.4
Soluble Cadmium (Cd)	5.0	75	ND
Soluble Chromium (Cr)	5.0	60	ND
Soluble Lead (Pb)	5.0	90	ND
Soluble Mercury (Hg)	5.0	60	ND
Soluble Selenium (Se)	5.0	500	ND
Conclusion			Pass

Remark: 1. Adjusted analytical result.

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Remark:

1. The test results of the sample 018 is transferred from sample 002 of report 68.452.24.3960.
2. The test results of the sample 019 is transferred from sample 020 of report 68.452.24.3970.
3. The test results of the sample 020 is transferred from sample 021 of report 68.452.24.3970.
4. The test results of the sample 021 is transferred from sample 022 of report 68.452.24.3970.
5. The test results of the sample 022 is transferred from sample 008 of report 68.452.24.3968.
6. The test results of the sample 023 is transferred from sample 009 of report 68.452.24.3968.

7. ASTM F963-23 Section 4.3.8 - Phthalates

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					015+016+025*	017
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018	019
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					020	021
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					022	023
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					024
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	0.015
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND
Conclusion					Pass

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Remark:

1. The test results of the sample 018 is transferred from sample 002 of report 68.452.24.3960.
2. The test results of the sample 019 is transferred from sample 020 of report 68.452.24.3970.
3. The test results of the sample 020 is transferred from sample 021 of report 68.452.24.3970.
4. The test results of the sample 021 is transferred from sample 022 of report 68.452.24.3970.
5. The test results of the sample 022 is transferred from sample 008 of report 68.452.24.3968.
6. The test results of the sample 023 is transferred from sample 009 of report 68.452.24.3968.
7. "*" denotes sample was received on 2024-10-30

8. 16 CFR Part 1303 / CPSIA section 101(f) - Total Lead Content (surface coating)

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
019	mg/kg	10.0	90	14.5	Pass
020	mg/kg	10.0	90	14.9	Pass
021	mg/kg	10.0	90	22.9	Pass
022	mg/kg	10.0	90	ND	Pass
023	mg/kg	10.0	90	ND	Pass
024	mg/kg	10.0	90	ND	Pass

Remark:

1. The test results of the sample 019 is transferred from sample 020 of report 68.452.24.3970.
2. The test results of the sample 020 is transferred from sample 021 of report 68.452.24.3970.
3. The test results of the sample 021 is transferred from sample 022 of report 68.452.24.3970.
4. The test results of the sample 022 is transferred from sample 008 of report 68.452.24.3968.
5. The test results of the sample 023 is transferred from sample 009 of report 68.452.24.3968.

9. 15 U.S.C. 1278a / CPSIA section 101(a)(2) - Total lead content (Substrate)

Test with reference to CPSC-CH-E1001-08.3:2012 or CPSC-CH-E1002-08.3:2012, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002	mg/kg	10.0	100	ND	Pass
014+015+016	mg/kg	10.0	100	ND	Pass
017	mg/kg	10.0	100	ND	Pass
018	mg/kg	10.0	100	ND	Pass

Remark:

1. The test results of the sample 002 is transferred from sample 008 of report 68.452.24.3970.
2. The test results of the sample 018 is transferred from sample 002 of report 68.452.24.3960.

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10. CPSIA, § 108, 16 CFR 1307- Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					015+016+025*	017
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018	019
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					020	021
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					022	023
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					024
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	0.015
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	ND
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND
Conclusion					Pass

Remark:

1. The test results of the sample 018 is transferred from sample 002 of report 68.452.24.3960.
2. The test results of the sample 019 is transferred from sample 020 of report 68.452.24.3970.
3. The test results of the sample 020 is transferred from sample 021 of report 68.452.24.3970.
4. The test results of the sample 021 is transferred from sample 022 of report 68.452.24.3970.
5. The test results of the sample 022 is transferred from sample 008 of report 68.452.24.3968.
6. The test results of the sample 023 is transferred from sample 009 of report 68.452.24.3968.
7. “*”denotes sample was received on 2024-10-30

-End of Test Report-

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