

Applicant: Elecrow Technology Co.,Ltd

Address: 5/F, Block B, North Zone, Huafeng Second Industrial Park, Aviation Road, Bao'an Ave, Shenzhen, China

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

Sample Name: Crowbits-All in One Pack Kit
 Model No.: CRK00066A
 Trade.: Elecrow
 Manufacturer: Elecrow Technology Co.,Ltd
 Manufacturer address: 5/F, Block B, North Zone, Huafeng Second Industrial Park, Aviation Road, Bao'an Ave, Shenzhen, China
 Age grade labeled: 10+ages
 Age grade tested: 10+ages
 Sample Received Date: Jan.04, 2022
 Test Period: Jan.04, 2022 to Jan.13,2022
 Test Method: Please refer to next page(s).
 Test Result: Please refer to next page(s).

CONCLUSION :

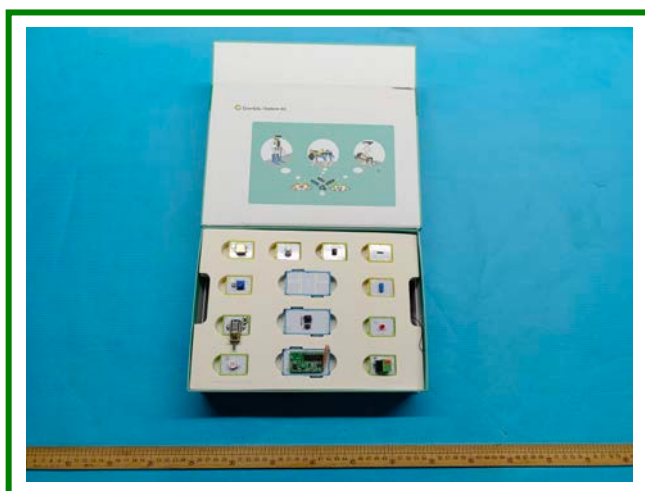
According to client's request to conduct below tests in the selected parts of the submitted sample:

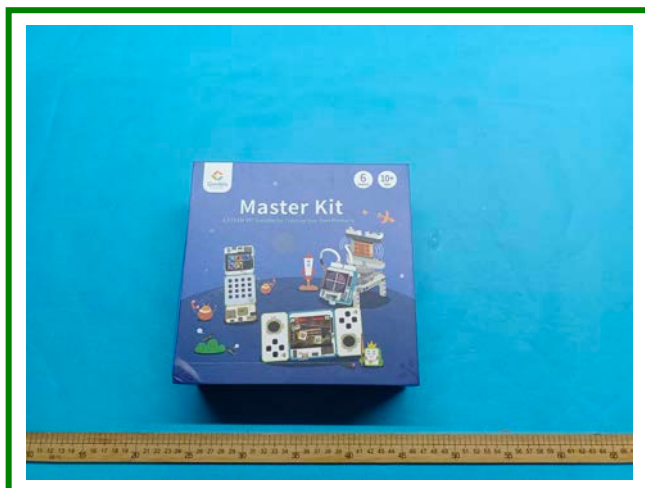
| <u>TEST ITEM</u> | <u>RESULT</u> |
|---|---------------|
| 1. Mechanical and Physical Properties-EN 71-1: 2014+A1: 2018 safety of toys | PASS |
| 2. Flammability-EN 71-2: 2020-Flammability of Toys | PASS |
| 3. Migration of certain elements- EN 71-3: 2019+A1:2021safety of toys | PASS |
| 4. Electric toys – Safety-EN 62115:2005+A12:2015 | PASS |

Authorized Signatory
 Title: Lab Manager
 For and on behalf of
 Dongguan Universal Testing Technology Co., Ltd.




Photos of submitted sample







Photos provided by client



TEST PART(S):

| Part(s) No. | Part(s) Description |
|-------------|---------------------|
| P1 | Orange plastic |
| P2 | Green plastic |
| P3 | Gray plastic |
| P4 | Off-white plastic |
| P5 | Blue plastic |
| P6 | Finished product |

TEST RESULT(S) :
1.Mechanical and Physical Properties –EN 71-1: 2014+A1: 2018

| Section | Test Item | Result(s) |
|---------|--|-----------|
| | | <u>P6</u> |
| 4.1 | Material cleanliness | Pass |
| 4.2 | Assembly | NA |
| 4.3 | Flexible plastic sheeting | NA |
| 4.4 | Toy bags | NA |
| 4.5 | Glass | Pass |
| 4.6 | Expanding materials | NA |
| 4.7 | Edges | Pass |
| 4.8 | Points and metallic wires | Pass |
| 4.9 | Protruding parts | NA |
| 4.10 | Parts moving against each other | Pass |
| 4.11 | Mouth-actuated toys and other toys intended to be put in the mouth | NA |
| 4.13 | Cords of toy kites and other flying toys | NA |
| 4.14 | Enclosures | NA |
| 4.15 | Toys intended to bear the mass of a child | NA |
| 4.16 | Heavy immobile toys | NA |
| 4.17 | Projectiles | NA |
| 4.18 | Aquatic toys and inflatable toys | NA |
| 4.19 | Percussion caps specifically designed for use in toys and toys using percussion caps | NA |
| 4.20 | Acoustics | Pass |
| 4.21 | Toys containing a non-electrical heat source | NA |
| 4.22 | Small balls | NA |

| | | |
|------|---|------|
| 4.23 | Magnet | NA |
| 4.24 | Yo-yo balls | NA |
| 4.25 | Toys attached to food | NA |
| 4.26 | Toy Disguise Costumes | NA |
| 4.27 | Flying toys | NA |
| 5 | Toys intended for children under 36 months | |
| 5.1 | General requirements | NA |
| 5.2 | Soft-filled toys and soft-filled parts of a toy | NA |
| 5.3 | Plastic sheeting | NA |
| 5.4 | Cords ,chains and electrical cables in toys | NA |
| 5.5 | Liquid-filled toys | NA |
| 5.6 | Speed limitation of electrically-driven ride-on toys | NA |
| 5.7 | Glass and porcelain | NA |
| 5.8 | Shape and size of certain toys | NA |
| 5.10 | Small balls | NA |
| 5.11 | Play figures | NA |
| 5.12 | Hemispheric-shape toys | NA |
| 5.13 | Suction cups | NA |
| 5.14 | Straps intended to be worn fully or partially around the neck | NA |
| 6 | Packaging | Pass |
| 7 | Warnings ,markings and instructions for use | |
| 7.1 | General | NA |
| 7.2 | Toys not intended for children under 36 months | NA |
| 7.3 | Latex balloons | NA |
| 7.4 | Aquatic toys | NA |
| 7.5 | Functional toys | NA |
| 7.6 | Hazardous sharp functional edges and points | NA |
| 7.7 | Projectiles | NA |
| 7.8 | Imitation protective masks and helmets | NA |
| 7.9 | Toy kites | NA |
| 7.10 | Roller skates, inline skates, skateboards and certain other ride-on toys | NA |
| 7.11 | Toys intended to be attached to or strung across a cradle, cot, or perambulator | NA |
| 7.12 | Liquid-filled teethingers | NA |
| 7.13 | Percussion caps specifically designed for use in toys | NA |
| 7.14 | Acoustics | NA |

Except for full text reproduction, part of the report should not be copied without the written approval of this laboratory. Our report includes all of the tests requested by client and the results thereof based upon the information that you provided to us. The results in this report are not indicative of the quality or characteristics of the lot from which a test sample was taken unless specifically and expressly noted.

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| | | |
|------|---|----|
| 7.15 | Toy bicycles | NA |
| 7.16 | Toys intended to bear the mass of a child | NA |
| 7.17 | Toys comprising monofilament fibres | NA |
| 7.18 | Toy scooters | NA |
| 7.19 | Rocking horses and similar toys | NA |
| 7.20 | Magnetic/electrical experimental sets | NA |
| 7.21 | Toys with electrical cables exceeding 300 mm in length | NA |
| 7.22 | Toys with cords or chains intended for children of 18 months and over but under 36 months | NA |

- Note:
1. NA = Not Applicable
 2. Additional information according to the Toy Safety Directives 2009/48/EC requirement:
 - a. The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.
 - b. A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

2. Flammability –EN 71-2:2020

| Section | Test Item | Assessment |
|---------|---|------------|
| | | <u>P6</u> |
| 4.1 | General requirements | Pass |
| 4.2 | Toys to be worn on the head | NA |
| 4.3 | Toys disguise costumes and toys intended to worn by a child in play | NA |
| 4.4 | Toys intended to be entered by a child | NA |
| 4.5 | Soft-filled toys | NA |

- Note: 1. NA = Not Applicable

3. MIGRATION OF CERTAIN ELEMENTS- EN 71-3: 2019+A1:2021 SAFETY OF TOYS

Method Used: Ref. EN 71-3: 2019+A1:2021, analyzed by Inductively Coupled Plasma Atomic Emission Spectrometry mass spectrometer, Gas Chromatography with Mass Selective Detector.

| Test parameter(s) | Result (mg/kg) | | | | |
|-------------------|----------------|------|------|------|------|
| | P1 | P2 | P3 | P4 | P5 |
| Lead (Pb) | ND | ND | ND | ND | ND |
| Cadmium (Cd) | ND | ND | ND | ND | ND |
| Chromium(III) | ND | ND | ND | ND | ND |
| Barium (Ba) | ND | ND | ND | ND | ND |
| Antimony (Sb) | ND | ND | ND | ND | ND |
| Arsenic (As) | ND | ND | ND | ND | ND |
| Mercury (Hg) | ND | ND | ND | ND | ND |
| Selenium (Se) | ND | ND | ND | ND | ND |
| Aluminum (Al) | 7 | 9 | 9 | 6 | 8 |
| Boron (B) | ND | ND | ND | ND | ND |
| Cobalt (Co) | ND | ND | ND | ND | ND |
| Copper (Cu) | ND | ND | ND | ND | ND |
| Manganese (Mn) | ND | 6 | ND | ND | 5 |
| Nickel (Ni) | ND | ND | ND | ND | ND |
| Strontium (Sr) | ND | ND | ND | ND | ND |
| Tin (Sn) | ND | ND | ND | ND | ND |
| Zinc (Zn) | ND | 7 | 7 | 12 | 7 |
| Chromium(VI) | ND | ND | ND | ND | ND |
| Organic tin | ND | ND | ND | ND | ND |
| Category | III | III | III | III | III |
| Conclusion | Pass | Pass | Pass | Pass | Pass |

Note(s): - ND = Not Detected;

-mg/kg= milligram(s) per kilogram = ppm = part(s) per million

- Method Detection Limit:

Category I: Lead (Pb):2mg/kg、Cadmium (Cd):1mg/kg、Arsenic (As):2 mg/kg、Chromium(VI): 0.020 mg/kg、Organic tin:0.5 mg/kg、Other : 5 mg/kg

Category II: Lead (Pb):0.5mg/kg、Cadmium (Cd):0.2mg/kg、Chromium(III):2mg/kg、Antimony (Sb):2 mg/kg、Arsenic (As):0.5mg/kg、Mercury (Hg):1mg/kg、Cobalt (Co) : 2 mg/kg、Other : 5 mg/kg、Chromium(VI): 0.005 mg/kg、Organic tin:0.2 mg/kg

Category III: Chromium(VI): 0.050 mg/kg、Organic tin:2.5 mg/kg、Other : 5 mg/kg

- Limit requirements see Appendix A

-Unless the test results were marked with"', Chromium(III) & Chromium(VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

APPENDIX A

| Parameter(s) | Migration limit | | |
|-------------------------------|--|------------------------|------------------------|
| | Category I | Category II | Category III |
| Lead (Pb) | 2.0 | 0.5 | 23 |
| Cadmium (Cd) | 1.3 | 0.3 | 17 |
| Chromium(III) | 37.5 | 9.4 | 460 |
| Barium (Ba) | 1500 | 375 | 18750 |
| Antimony (Sb) | 45 | 11.3 | 560 |
| Arsenic (As) | 3.8 | 0.9 | 47 |
| Mercury (Hg) | 7.5 | 1.9 | 94 |
| Selenium (Se) | 37.5 | 9.4 | 460 |
| Aluminum (Al) | 2250 | 560 | 28130 |
| Boron (B) | 1200 | 300 | 15000 |
| Cobalt (Co) | 10.5 | 2.6 | 130 |
| Copper (Cu) | 622.5 | 156 | 7700 |
| Manganese (Mn) | 1200 | 300 | 15000 |
| Nickel (Ni) | 75 | 18.8 | 930 |
| Strontium (Sr) | 4500 | 1125 | 56000 |
| Tin (Sn) | 15000 | 3750 | 180000 |
| Zinc (Zn) | 3750 | 938 | 46000 |
| Chromium(VI) | 0.02 | 0.005 | 0.053 |
| Organic tin | 0.9 | 0.2 | 12 |
| List of organic tin compounds | | | |
| Methyltin trichloride | Dipropyltin dichloride | Butyltin trichloride | Dibutyltin dichloride |
| Tributyltin chloride | Monooctyltin trichloride | Tetrabutyltin | Diphenyltin dichloride |
| Diethyltin dichloride | Triphenyltin chloride | Dimethyltin dichloride | -- |
| Note(s): | - Category I: Compressed paint tablets, materials intended to leave a trace or similar materials in solid form ;pliable modeling materials, including modeling clays and plaster - Category II: Liquid paints; glue sticks - Category III: Coatings and similar coatings; polymeric and similar materials; paper and paper | | |

4. Electric toys – Safety- EN 62115:2005+A12:2015

| Applicable Clause | Test parameter(s) | Result(s) |
|-------------------|---|-----------|
| | | <u>P6</u> |
| 4 | General requirement | Pass |
| 5 | General conditions for the tests | -- |
| 5.13 | Battery toys tested with the polarity reversed | Pass |
| 6 | Criteria for reduced testing | -- |
| 6.1 | Toys with the insulation between parts of different polarity short-circuited | Pass |
| 6.2 | Battery toys | Pass |
| 7 | Marking and instructions | -- |
| 7.1 | General | Pass |
| 7.1.2 | Transformer toys | Pass |
| 7.1.3 | Dual-supply toys | Pass |
| 7.3 | Markings on electric toys | Pass |
| 7.4 | Instructions with details of cleaning and maintenance | Pass |
| 7.6 | Instructions and other texts written in the official language of the country in which the toy is to be sold | Pass |
| 7.7 | Legible and durable markings | Pass |
| 8 | Power input | -- |
| 9 | Heating and abnormal operation | -- |
| 9.3 | Normal operation | Pass |
| 9.8 | Compliance for electronic circuits | Pass |
| 9.9 | Fault condition in electronic circuits | Pass |
| 9.9.2 | Check the compliance of electronic circuits by evaluating failure conditions | Pass |
| 9.10 | Limits of temperature rise and other requirements | Pass |
| 13 | Mechanical strength | Pass |
| 14 | Construction | Pass |
| 14.1 | Nominal supply voltage | Pass |
| 14.8 | Rechargeable batteries without leakage | Pass |
| 14.12 | Requirement of rechargeable batteries | Pass |
| 14.13 | Toys shall not incorporate series motors having a power input exceeding 20W | Pass |
| 14.14 | Toys shall not contain asbestos | Pass |
| 14.15 | Internal parts of a toy having a voltage exceeding 24V shall not lead to any risk of harmful electric shock | Pass |
| 16 | Components | -- |
| 16.2 | Requirement of thermal cut-outs and mercury switches | Pass |

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