



TEST REPORT

Prepared for:

Xinxiang Alpha Manufacturing Ltd.

**WEST OF BEI HUAN ROAD, MUYE DISTRICT, XIN XIANG CITY,
HE NAN PROVINCE, CHINA, 453000**

Product Name: Glow in the Dark Lab

Model Name: SM190106

Trade Name: BIG BANG SCIENCE

Date of Test: From March 13, 2023 to March 17, 2023

Date of Report: April 19, 2023

Report Number: HK2303131870-1RR-R01

Prepared by:

Shenzhen HUAK Testing Technology Co., LTD.

**1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**



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Applicant: Xinxiang Alpha Manufacturing Ltd.

Address: WEST OF BEI HUAN ROAD, MUYE DISTRICT, XIN XIANG CITY,
HE NAN PROVINCE, CHINA, 453000

Manufacturer: Xinxiang Alpha Manufacturing Ltd.

Address: WEST OF BEI HUAN ROAD, MUYE DISTRICT, XIN XIANG CITY,
HE NAN PROVINCE, CHINA, 453000

The following sample was submitted and identified by/on behalf of the client as:

Sample Name: Glow in the Dark Lab
 Model No: SM190106
 Trade Name: BIG BANG SCIENCE
 Tested Age Grade: 8+ years old
 Labeled Age Grading: 8+ years old
 Appropriate Age Grade: 8+ years old
 Sample Receiving Date: March 13, 2023
 Testing Period: From March 13, 2023 to March 17, 2023
 Results: Please refer to next page(s).

 Signed for and on behalf of HUAKE

Approved by: Jason Zhou
 Lab Manager

Remark: Only selected materials were tested as per client's requirement.



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Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

CPSC Certification Number is 1710.

Summary of Test Results:

TEST REQUEST

- A European Standard on Safety of Toys
 - 1.EN71-1:2014+A1:2018 - Mechanical and Physical Properties
 - 2.EN 71- 2:2020 - Flammability
 - 3.EN 71-3:2019+A1:2021 - Migration of Certain Elements

CONCLUSION

PASS

PASS

PASS



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Results:

A.1 EN 71-1:2014+A1:2018 Mechanical and physical properties

Applicable Section	Description	Result
4	General Requirements	
4.1	Material	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	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	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 toy sand toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing anon-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	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

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Applicable Section	Description	Result
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	NA
5.1b	Torque test (Test method 8.3)	NA
	Tension test (Test method 8.4)	NA
	Drop test (Test method 8.5)	NA
	Tip over test (Test method 8.6)	NA
	Impact test (Test method 8.7)	NA
	Compression test (Test method 8.8)	NA
	Sharp edge (Test method 8.11)	NA
	Sharp point (Test method 8.12)	NA
	Flexure Test (Test method 8.13)	NA
	Tension test for magnet (Test method 8.34)	NA
5.1c	Potential hazardous metal points and wires with across section of 2 mm or less	NA
5.1d	Large and bulky toys	NA
5.1e	Glued wooden toys and toys with glued on plastic decals	NA
5.1f	The casing of toys intended for children too young to Sit up unaided	NA
5.1g	Foam toys and toys containing accessible foam components	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 cable sin 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
5.9	Toys comprising monofilament fibers	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	Pass
7	Warnings, markings and instructions for use	

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Applicable Section	Description	Result
7	CE Mark	Pass
7	Manufacturer name and address	Pass
7	Importer name and address	Pass
7	Product Identification	Pass
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
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, in line skates, skateboards and certain Other ride-on toys	NA
7.11	Toys intended to be 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
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibers	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 300mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36months	NA
7.23	Toy intended to be attached to a cradle, cot or pram crib or	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

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Note:

According to Directive 2009/48/EC, toys made available on market must meet the following requirements:

- Toys must bear the CE marking, and the CE marking must be affixed visibly, legibly and indelibly to the toy, to an affix de label or to the packaging. The CE marking must be at least 5mm high.
- The manufacture’s name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its Packaging or in a document accompanying the toy. This requirement applies also to the name and Address etc. of any importer.
- Toys must 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.
- The toy should be accompanied by instructions and safety information in a language or languages easily understood by consumers, as determined by the Member State concerned.
- NA = Not Applicable
- NC = Not conducted (According to customer requirement, no evaluation of this clause)

A.2 EN 71-2:2020 -Flammability

Applicable Section	Description	Result
4	Requirements	
4.1	General	Pass
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a Child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys (animals and dolls etc.)with a piled or textile surface	NA

-NA = Not Applicable

Note: In accordance with the EN71-2, the burning rate should not be greater than 30mm per second.



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A.3 EN 71-3:2019+A1:2021 - Migration of Certain Elements

Tested part(s):

Seq. no	Part(s) name
1	Black, clear bottle
2	White plastic bottle cap
3	Transparent liquid
4	Multicolor coating
5	Transparent plastic
6	Purple plastic
7	White plastic pipe
8	White plastic bottle cap
9	Clear plastic bottle
10	White powder
11	Transparent plastic
12	Transparent plastic cup
13	White Print (Green Plastic bag)
14	Blue plastic
15	Red powder
16	White powder
17	Silver plastic film
18	White paper



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Test method: Preparation of the sample and migration procedure with reference to EN71-3:2019+A1:2021, metal elements analysis is performed by Inductively Coupled Argon Plasma Spectrometer (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS), organic tins analysis is performed by Gas Chromatography- (GC/MS) Mass Spectrometer and Cr (III) and Cr(VI) analysis is performed by High Performance Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometer (HPLC-ICP-MS).

Element	Unit	Results			MDL	Permissible Limit
		(1)^	(2)^	(3) *		
Soluble Aluminium(Al)	mg/kg	N.D.	N.D.	N.D.	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Arsenic (As)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Barium(Ba)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Boron(B)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium (Cr)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Chromium III (Cr3+)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium VI (Cr6+)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Cobalt (Co)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Copper(Cu)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Lead(Pb)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Manganese(Mn)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Mercury (Hg)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Nickel (Ni)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Selenium(Se)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Strontium(Sr)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Tin (Sn)	mg/kg	N.D.	N.D.	N.D.	5	
Soluble Organic Tin	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Zinc (Zn)	mg/kg	N.D.	N.D.	N.D.	50	
Conclusion	/	Pass	Pass	Pass	/	/

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Element	Unit	Results			MDL	Permissible Limit
		(4)^	(5)^	(6)^		
Soluble Aluminium(Al)	mg/kg	N.D.	N.D.	N.D.	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Arsenic (As)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Barium(Ba)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Boron(B)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium (Cr)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Chromium III (Cr3+)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium VI (Cr6+)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Cobalt (Co)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Copper(Cu)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Lead(Pb)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Manganese(Mn)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Mercury (Hg)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Nickel (Ni)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Selenium(Se)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Strontium(Sr)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Tin (Sn)	mg/kg	N.D.	N.D.	N.D.	5	
Soluble Organic Tin	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Zinc (Zn)	mg/kg	N.D.	N.D.	N.D.	50	
Conclusion	/	Pass	Pass	Pass	/	/

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Element	Unit	Results			MDL	Permissible Limit
		(7)^	(8)^	(9)^		
Soluble Aluminium(Al)	mg/kg	N.D.	N.D.	N.D.	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Arsenic (As)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Barium(Ba)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Boron(B)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium (Cr)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Chromium III (Cr3+)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium VI (Cr6+)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Cobalt (Co)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Copper(Cu)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Lead(Pb)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Manganese(Mn)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Mercury (Hg)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Nickel (Ni)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Selenium(Se)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Strontium(Sr)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Tin (Sn)	mg/kg	N.D.	N.D.	N.D.	5	
Soluble Organic Tin	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Zinc (Zn)	mg/kg	N.D.	N.D.	N.D.	50	
Conclusion	/	Pass	Pass	Pass	/	/

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Element	Unit	Results			MDL	Permissible Limit
		(10)^	(11)^	(12)^		
Soluble Aluminium(Al)	mg/kg	N.D.	N.D.	N.D.	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Arsenic (As)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Barium(Ba)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Boron(B)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium (Cr)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Chromium III (Cr3+)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium VI (Cr6+)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Cobalt (Co)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Copper(Cu)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Lead(Pb)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Manganese(Mn)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Mercury (Hg)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Nickel (Ni)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Selenium(Se)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Strontium(Sr)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Tin (Sn)	mg/kg	N.D.	N.D.	N.D.	5	
Soluble Organic Tin	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Zinc (Zn)	mg/kg	N.D.	N.D.	N.D.	50	
Conclusion	/	Pass	Pass	Pass	/	/

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Element	Unit	Results			MDL	Permissible Limit
		(13)^	(14)^	(15)^		
Soluble Aluminium(Al)	mg/kg	N.D.	N.D.	N.D.	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Arsenic (As)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Barium(Ba)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Boron(B)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium (Cr)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Chromium III (Cr3+)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium VI (Cr6+)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Cobalt (Co)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Copper(Cu)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Lead(Pb)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Manganese(Mn)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Mercury (Hg)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Nickel (Ni)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Selenium(Se)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Strontium(Sr)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Tin (Sn)	mg/kg	N.D.	N.D.	N.D.	5	
Soluble Organic Tin	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Zinc (Zn)	mg/kg	N.D.	N.D.	N.D.	50	
Conclusion	/	Pass	Pass	Pass	/	/

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Element	Unit	Results			MDL	Permissible Limit
		(16)^	(17)^	(18)^		
Soluble Aluminium(Al)	mg/kg	N.D.	5616	N.D.	50	See the next remarks
Soluble Antimony (Sb)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Arsenic (As)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Barium(Ba)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Boron(B)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium (Cr)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Chromium III (Cr3+)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Chromium VI (Cr6+)	mg/kg	N.D.	N.D.	N.D.	0.001	
Soluble Cobalt (Co)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Copper(Cu)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Lead(Pb)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Manganese(Mn)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Mercury (Hg)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Nickel (Ni)	mg/kg	N.D.	N.D.	N.D.	10	
Soluble Selenium(Se)	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Strontium(Sr)	mg/kg	N.D.	N.D.	N.D.	50	
Soluble Tin (Sn)	mg/kg	N.D.	N.D.	N.D.	5	
Soluble Organic Tin	mg/kg	N.D.	N.D.	N.D.	0.1	
Soluble Zinc (Zn)	mg/kg	N.D.	N.D.	N.D.	50	
Conclusion	/	Pass	Pass	Pass	/	/

Note:

- N.D.= Not Detected(lower than MDL)
- MDL =Method Detection Limit
- *= This test portion material is Category II;
- ^=This test portion material is Category III.
- mg/kg= ppm
- Soluble Chromium is not restricted by EN 71-3, results shown only for reference.
- Soluble Tin--If this element was detected, further confirmation test of Organic tin need to be performed.

Remark I:

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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



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The standard contains requirements for the migration of certain elements from the following categories of toy:

- Category I: Dry, brittle, powder like or pliable materials;
- Category II: Liquid or sticky materials;
- Category III: Scraped-off materials or textile or wood materials or paper products;

Remark II:

Migration limits from toy materials:

Element	Category I mg/kg	Category II mg/kg	Category III mg/kg
Soluble Aluminium (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 Chromium III(Cr ³⁺)	37.5	9.4	460
Soluble Chromium VI(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 Organic Tin	0.9	0.2	12
Soluble Zinc(Zn)	3750	938	46000

**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2023/03/17	Jason Zhou
Revision 2.0	All test data were obtained from: HK2303131824-1RR	2023/03/17	Jason Zhou
Revision 3.0	Modify detection date	2023/04/19	Jason Zhou



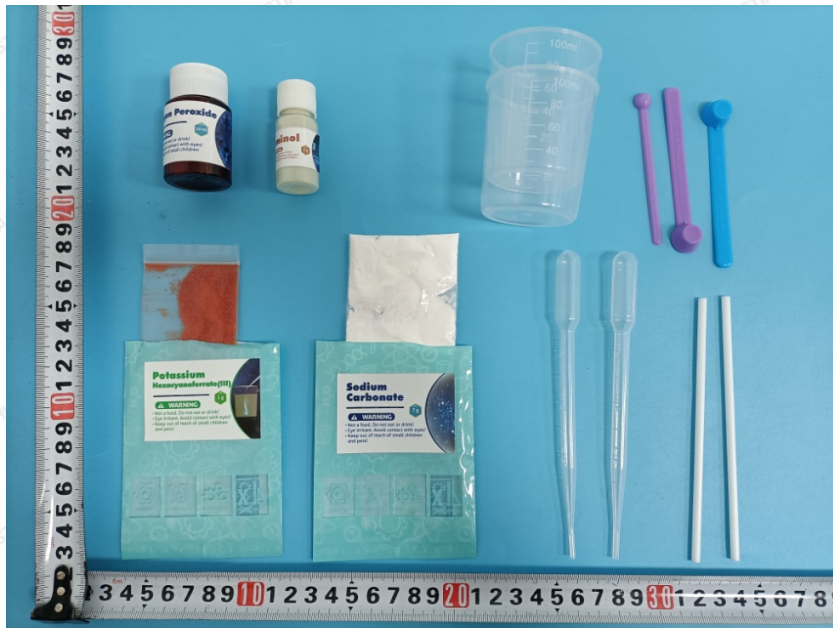
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Photograph of Sample



Activity Disclosure
The cause of the glow is a chemical interaction of the luminol with the hydrogen peroxide, with light emitted in the process. The name for this phenomenon is chemiluminescence. As with many chemical reactions, it releases energy. But unlike the combustion of wood, for example, in this case the energy is released as light rather than heat.

Activity #5: Catch the criminals
At the scene of a crime, police search for tiny splatters of blood, luminol can be helpful here.

What you'll need from the lab:
Luminol Solution (used in Activity #1)
Measuring Cup
Paper Plate
Flashlight

What you need to get or use:
Paper Plate
Flashlight

- In the kitchen, drip some blood from a piece of fresh meat onto a strip of paper; lay the blood-smeared paper towel onto the plate, wash your hands afterwards!
- Pour 10ml of luminol solution into the measuring cup.
- Make the room completely dark, switch on the flashlight, let the light face the opposite direction of the test bed and wait a few minutes for your eyes to get used to the dimness. Then, use the pipette to drip the luminol solution onto the paper towel and immediately turn off the flashlight.
- The spots that were smeared with blood glow with a mysterious light blue shimmer.
- After the experiment, dispose of the paper in the garbage.

Activity Disclosure:
Much of crime scene investigation, without some heavy-duty cleaning chemicals, some evidence will remain. Tiny particles of blood will cling to most surfaces for years and years, without anyone ever knowing they're there. Investigators will spray a suspicious area, turn out all the lights and block the windows, and look for a bluish-green light. If there are any blood traces in the area, they will glow, luminol is to reveal these traces with a light-producing chemical reaction between several chemicals and hemoglobin, an oxygen-carrying protein in the blood.

GLOW IN THE DARK LAB

What's included in the kit:

- Hydrogen Peroxide
- Luminol
- Measuring Cup
- Pipette
- Purple Spoon
- Blue Spoon
- Purple Small Spoon
- Stirring Stick

What you need to get or use:
Water, Paper Towel, Fresh Piece of Meat, Plate, Flashlight, Liquid Soap.

Let's Start

Activity #1: Blinking Stars

What you'll need from the lab:
Sodium Carbonate
Potassium Hexacyanoferrate(III)
Hydrogen Peroxide
Paper Small Spoon
Purple Spoon
Blue Spoon
Stirring Stick
Measuring Cup
Paper Plate

What you need to get or use:
Water

- Add a small spoon (purple) of sodium carbonate and luminol separately into the measuring cup, mix with the purple small spoon.
- Add 80 ml of water and a spoon (blue) of potassium hexacyanoferrate(III) into another measuring cup.
- Add 2ml of hydrogen peroxide into potassium hexacyanoferrate(III) solution, mix with the stirring stick.
- Darken the room, sprinkle the mixed powder from step 1 into the solution with the spoon (purple), then enjoy the star-studded light show.
- After the activity, rinse and dry the measuring cup.

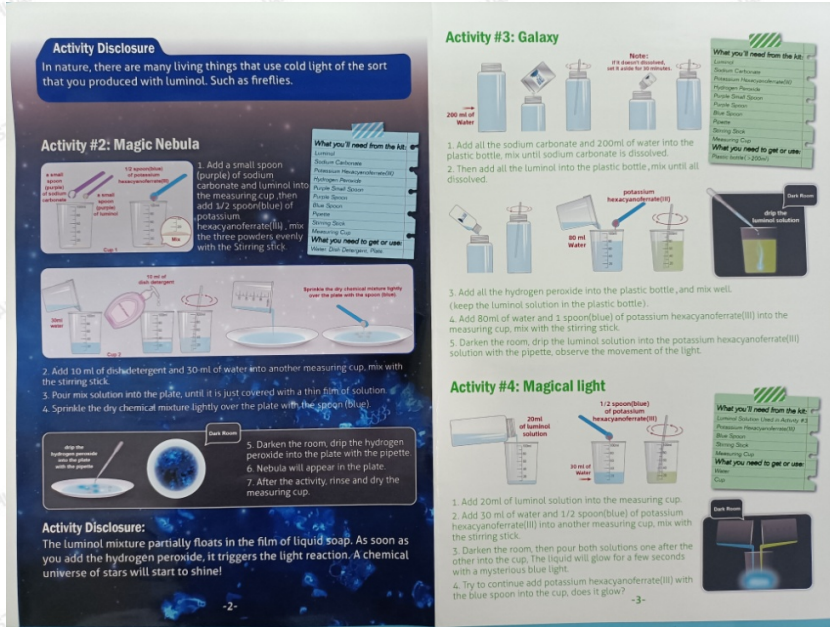


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*** End of Report ***

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