

# Children's Products Testing Services

Comprehensive Services to Help Manufacturers Enhance Production Efficiency and Make Products Comply with Various Standards.





01

## ***CHILDREN'S PRODUCTS TESTING SERVICE***

Analysis and testing service for children's products can help manufacturers improve and qualify products to meet regulatory requirements worldwide.

02

## ***REGULATIONS***

Our staff of specialists can handle your products under ISO, EN, ASTM, IEC, ST, and other industry standards.





03

## ***ALFA CHEMISTRY TESTING LAB***

Alfa Chemistry is a comprehensive analysis testing company that provides one-stop testing, analysis and technical support services in the areas of Food, Agricultural Products & Crop, Personal Care & Beauty Products, Healthcare Products, Fine Chemicals Products, Energy, Environment, Material, Household & Apparel Products, Stationery & Office Supplies, and **Children's Products**.

# Outline



As a professional third-party testing organization, Alfa Chemistry issues more authoritative, scientific, fair and accurate testing reports.



Toy



Bike



Baby Product



Diaper



Children are the main consumer groups of toys, and unqualified toys can endanger children's health and safety. On April 19, 2016, the US Consumer Product Safety Commission (CPSC) announced a voluntary recall of Chinese-made wooden toys. It is reported that the reason for the recall is that the parts of wooden toys may fall off, forming small parts, and there is a risk of choking on children. Therefore, in the extremely fierce toy competition, the toy safety test results will directly become the basis for users to choose. At the same time, it has also become the guarantee of enterprise quality improvement, enterprise reputation and market recognition. As world-leading third-party testing company, Alfa Chemistry Testing Lab provides one-stop toys analysis and testing solutions for manufacturers, suppliers, retailers, and consumers.

## Industry Regulations

- ASTM F963
- EN 71 (European Standard - Safety of Toys)
- International Organization for Standardization
- .....

Ordinary Toys	Test item	Regulations	Platforms
Plush and cloth toy Chemical toy Wooden toy Plastic toy Ceramic toy Clockwork toy Paper (board) toy	Soluble heavy metal content testing	EN 71 EN 62115 EMC,R&TTE 2009/48/EC ISO8124/ IEC62115 CPSIA ASTM F963 FCC C.R.C.,c931&HPA AS/NZS ISO8124	HPLC ICP-AES LA-CP-MS IC ICP-MS GC-MS XRF FTIR
	Physical and mechanical testing		
	Flammability testing		
	Chemical performance testing		
	Testing of toxic elements in packaging materials		
	Bisphenol A		
	Formaldehyde, azo		
	Plastic testing, paint testing, and auxiliary materials testing		
	Total lead		
	Humidity testing of wooden toys		

Electronic Toys	Test item	Regulations	Platforms
Voice control toy Light control toy Remote control toy Mechanical toy Pneumatic toy Electric toy Computer network toy Solar toy Infrared toy Laser toy, etc.	Sharp corner and sharp edge testing	EN 71	
	Widget pull testing	EN 62115	HPLC
	Metal testing	EMC,R&TTE	ICP-AES
	Widget testing	2009/48/EC	LA-CP-MS
	Process testing	ISO8124/ IEC62115	IC
	Product function / performance testing	CPSIA	ICP-MS
	Working distance testing of remote control toys	ASTM F963	GC-MS
	Frequency testing of electronic toys	FCC	XRF
		C.R.C.,c931&HPA	FTIR
		AS/NZS ISO8124	

Intellectual Toys	Test item	Regulations	Platforms
Unring intellectual toy Interesting intellectual toy Chess intellectual toy Test intelligence toy Splicing toy Adult intellectual toy	Soluble heavy metal content testing		
	Physical and mechanical testing	EN 71	HPLC
	Flammability testing	EN 62115	ICP-AES
	Chemical performance testing	EMC,R&TTE	LA-CP-MS
	Testing of toxic elements in packaging materials	2009/48/EC	IC
	Bisphenol A	ISO8124/ IEC62115	ICP-MS
	Formaldehyde, azo	CPSIA	GC-MS
	Plastic testing, paint testing, and auxiliary materials testing	ASTM F963	XRF
	Total lead	FCC	FTIR
		C.R.C.,c931&HPA	
	AS/NZS ISO8124		

Doll	Test item	Ragulations	Platforms
Filled doll Unfilled doll	Sharp corner and sharp edge testing		
	Widget pull testing	EN 71	HPLC
	Seam tensile testing	EN 62115	ICP-AES
	Plush toy filling testing	EMC,R&TTE	LA-CP-MS
	Widget testing	2009/48/EC	IC
	Process testing	ISO8124/ IEC62115	ICP-MS
	Product function / performance testing	CPSIA	GC-MS
	Fabric and filler flame retardancy testing	ASTM F963	XRF
	Toxicity testing of fabrics and accessories	FCC	FTIR
	Heavy metal testing of fabrics	C.R.C.,c931&HPA	
	Cleanliness testing	AS/NZS ISO8124	



As sports and entertainment become more popular, the safety requirements and regulations of sporting goods are critical and subject to strict controls. The EU has tightened controls on sporting goods, such as bicycles. Since January 1, 2007, all EU countries such as Norway, Iceland and Switzerland have standardized bicycle testing standards. As world-leading third-party testing company, Alfa Chemistry Testing Lab provides one-stop bikes analysis and testing solutions for manufacturers, suppliers, retailers, and consumers.

## Industry Regulations

■ EN14619

■ CPSC1512

■ EN 14765

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Products		Test item	Regulations	Platforms
<b>Children's Bike</b> Children's bicycle Children's tricycle Baby stroller Baby walker Children's scooter Twist car Children's electric toy car	<b>Adult Bike</b> Shared bicycles City bicycles Travel bicycles Mountain bikes Racing bicycles Tricycles Adult scooters Electric bicycles Mini electric vehicles Electric balance vehicles	Physical and mechanical testing	ISO 8098:2014 Safety Requirements for Bicycles for Young Children ISO 4210-6:2015 Safety Requirements for Bicycles Consumer Product Safety Commission 16 CFR Part 1512 Requirements for Bicycles JIS D 9301 Bicycles for General Use NFR 30 020 Safety Requirements for Bicycles, All Terrain Bikes and Bicycles for Young Children	FLIR E60 Infrared Thermal Imager FLIR A655sc Infrared Thermal Imager
		Steering system		
		Transmission system		
		Brake system		
		Frame and front fork		
		Saddle		
		Riser		
		Pedal		
		Tires		
		Steel ring		
		Reflector		
		Chain cover		
Personalized product safety and quality testing services				



Infants and young children are the future and hope of the country, and the quality and safety of baby products have always received much attention. For maternal and child products, the quality is not only related to the physical and mental health and safety of children and parents, but also related to the harmony and stability of society. Faced with the urgent needs of customers and the increasingly stringent safety regulations in the European and American markets, Alfa Chemistry Testing Lab has established a testing laboratory for infant and toddler products, dedicated to providing manufacturers with one-stop comprehensive testing services.

## Industry Regulations

- ASTM F833 : 2007a
- ASTM F1821: 2003a
- EN1888 : 2003
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Products	Test item	Regulations	Platforms
Building sets Baby bottles Baby changing tables Hand-held infant carriers Cots Playpens Infant bath seats Cradles Rattles High chairs Portable hook-on chairs Pacifiers	Soluble heavy metal content testing	EN 71 EN 62115 EMC,R&TTE 2009/48/EC ISO8124/ IEC62115 CPSIA ASTM F963 FCC C.R.C.,c931&HPA AS/NZS ISO8124	HPLC ICP-AES LA-CP-MS IC ICP-MS GC-MS XRF FTIR
	Physical and mechanical testing		
	Flammability testing		
	Chemical performance testing		
	Testing of toxic elements in packaging materials		
	Bisphenol A		
	Formaldehyde, azo		
	Plastic testing, paint testing, and auxiliary materials testing		
	Total lead		



Because the users of diapers are children or incontinence adults, the resistance of these people is relatively weak. If the quality of diapers is not up to standard, it may affect the health of the users, such as allergy, distortion, urethral infection and so on. As world-leading third-party testing company, Alfa Chemistry Testing Lab provides one-stop diapers analysis and testing solutions for manufacturers, suppliers, retailers, and consumers.

## Industry Regulations

- 876.5920 - CFR
- American Society for Testing and Materials
- International Organization for Standardization
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Products	Service	Test items	Platforms
Disposable diaper Cloth diaper	Absorbent testing	The absorbent in the core is the material that determines how useful the product will turn out to be.	HPLC ICP-AES LA-CP-MS IC ICP-MS GC-MS XRF FTIR
	Compatibility with skin testing	The materials being used in the diaper must be gentle to the skin. It should not cause any irritation or discomfort.	
	Retention testing	Diapers are not removed as soon as defecation happens. It has to retain the liquid and semi solid waste for some time. Tests have to be undertaken on diapers to determine if there exists possibility of leakage or spillage.	
	Integrity testing	Diaper pads have to remain fettered in its place even when the person wearing them is on the move. Tests are conducted to ensure pads do not get displaced or broken on impact from movement.	
	Disposability testing	Diapers are used only one time after which they have to be thrown away. So they have to be made from a material that can disintegrate and does not cause much environmental damage.	
	Microorganism testing	Total number of colonies, mold and yeast count, coliform, fecal coliform, Escherichia coli, Staphylococcus aureus, hemolytic streptococcus, Salmonella, Pseudomonas aeruginosa, Legionella, etc.	
	Physical and chemical indicator testing	Appearance size, heavy metals such as lead, arsenic, mercury, methanol, formaldehyde, pH, moisture content, etc.	
	Safety testing	Bactericides, preservatives, anti-fungal agents, antibacterial agents, etc.	

**Children's  
Products Testing  
Services**

If you have any questions or would like to learn more about the services that Alfa Chemistry Testing Lab offers for the children's products, contact us at:

-  [www.alfachemic.com/testinglab/industries/industries/toys-children-products-testing.html](http://www.alfachemic.com/testinglab/industries/industries/toys-children-products-testing.html)
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