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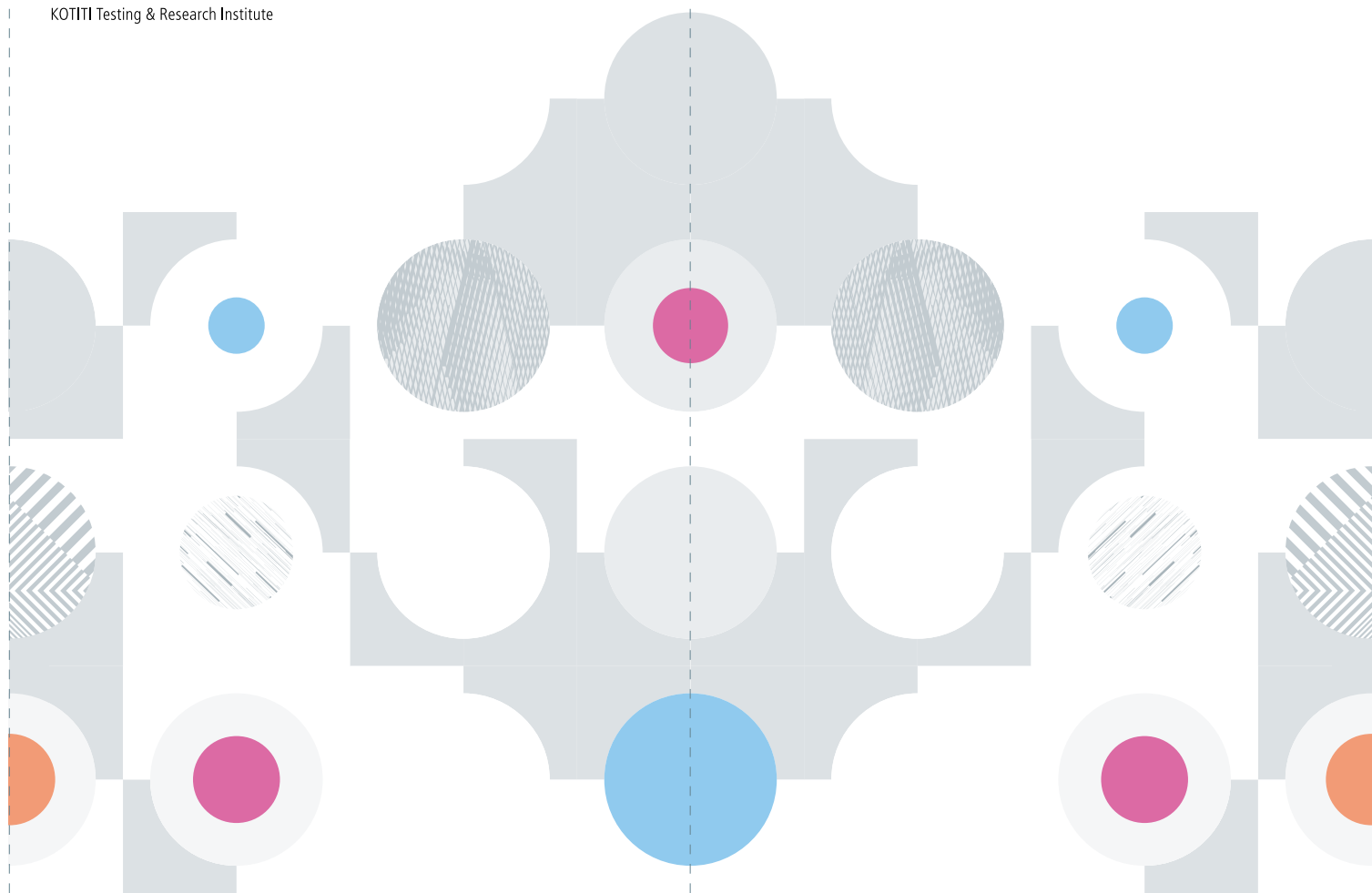
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KOTITI Testing & Research Institute



Testing & Research
Institute



Since 1961, KOTITI Testing & Research Institute

Since its foundation in 1961, KOTITI has been leading the development of the domestic textile industry for over half a century. It has been conducting test analysis, quality inspection, and R&D for textile products as well as environmental sanitation and industrial materials.

In addition, KOTITI focuses on R&D projects and provides differentiated technical services such as high-value-added technology development and technical information through education and publications compilation. In order to preserve the safety of our customers and the future environment, we will strengthen our ability to analyze the environment and harmful substances and take the lead in creating a pleasant living environment.



Business Categories

Textiles & Clothing

Consumer Products

Cosmetics and Quasi-drugs

Electricity & Electronics

Food and Livestock

Water Quality

Environmental Safety



Business Domain

KOTITI is the best comprehensive testing and inspection research institute in Korea and provides the best service to create customer value.



Test Analysis

We conduct specialized test analysis work on a wide range of products that require hazard and safety assessments, including textiles and clothing. In particular, KOTITI is a KOLAS certified testing and inspection organization supporting testing according to various international and national standards such as KS, ISO, JIS, GB.



Quality Inspection

Since being designated as the first inspection company for export cotton yarn and cotton fabrics in Korea, KOTITI has been assisting the stable management of product quality and production process that can meet buyer's needs through various quality inspection services.



Certification

As an accredited safety certification body and product certification body, we carry out statutory tests and self-tests such as KC certification to demonstrate the superiority and safety of our products. Systematic and reliable authentication system and professional after-care ensure that products and companies are trusted by consumers.



R&D

We are carrying out various research activities such as government-sponsored research projects and joint research with private companies to develop new spinning technology, new functional products, and new evaluation methods.



Training and Technical Support

KOTITI is conducting on-the-job training to improve the skills and qualities of employees in related industries, which is enhancing the efficiency of education through customized training programs that take into account the characteristics of companies and their work.

Designation Status

Division	Designation Name	Authority
Integrated Agency	International Authorized Testing Institute (KOLAS)	Korean Agency for Technology and Standards
	National Authorized Inspection Agency (KOLAS)	Korean Agency for Technology and Standards
Certification	Safety Certification Agency	Korean Agency for Technology and Standards
	Product Certification Body	Korean Agency for Technology and Standards
Consumer Products	Cosmetic Products Test Agency	Ministry of Food and Drug Safety
	Drugs Test Agency	Ministry of Food and Drug Safety
Electrical & Electronical	Electronic Products Test Agency (RoHS)	Korean Agency for Technology and Standards
Food	Food Test Agency	Ministry of Food and Drug Safety
	Norovirus Test Agency	Ministry of Food and Drug Safety
	Livestock Products Test Agency	Ministry of Food and Drug Safety
	Hygiene Products Test Agency	Ministry of Food and Drug Safety
Water Quality	Drinking Water Quality Testing Agency	Han River Basin Environment Agency
	Measurement Agency (Sludge/Waste Water)	Gyeonggi Provincial Government
Facility	Kids' Activity Space Environmental Harmful Factors Test Agency	National Institute of Environmental Research
	Kid's Amusement Facilities Safety Test Agency	Ministry of Public Safety and Security
Inspection	PPS Professional Inspection Agency	Public Procurement Service



KOTITI has been leading the development of the domestic textile industry since it was established as the first international approved testing institute of textile products established in 1961 in Korea. We are doing our best to provide specialized technical information services based on the latest facilities, professional manpower and accumulated technology. We provide various information and services through global network.

KEY TESTS

General Quality Test

We perform testing for quality assurance and confirmation of products that provide consumers with physical and chemical properties such as weight, strength, and fastness of textiles through quantitative and qualitative analysis.

Hazardous Substance Test

By increasing the use of chemicals, regulation of limit of harmful substances that threaten the environment and health are being strengthened. Therefore, KOTITI provides related services based on excellent professional personnel and equipment.

Functional Test

As a result of increasing leisure activities, we provide various test and functional tests such as sweat-absorbent, quick drying, warmth, breathable and waterproofing of outdoor products and provide test services to check product's functional characteristics and quality.

DETAILED TESTS

Textile Product Quality Mark Confirmation Test

We provide support services for quality labeling and regulatory matters in accordance with applicable laws and regulations in each country in the country and overseas.

- Confirm fiber composition or mix ratio indication
- Confirmation of handling notice
- All tests related to other quality indications

KOLAS Related Test Work

KOTITI is the KOLAS accredited testing laboratory that performs testing analysis work according to international and national standards. Therefore, the KOTITI test report is used as an internationally recognized certificate according to the international convention on KOLAS.

Foreign Buyer Related Test

In addition to testing for the quality requirements of overseas buyers, we also provide various testing services through business agreements with leading overseas testing organizations.

- Quality verification test for buyer submission
- Hazardous substance analysis test for export products
- Tests related to national (JIS, DIN, BS, ANSI, etc.) and group standards (ISO, AATCC, ASTM, etc.)

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Cosmetics & Quasi-drugs, Drugs



KOTITI is a testing and inspection agency for cosmetics, quasi-drugs and drugs designated by the Food and Drug Administration. It provides testing analysis services for cosmetics, quasi-drugs and drugs, and harmful substances in raw materials and containers. We provide accurate analysis service based on customer's product standard and test method for quality control that can be used safely and we are helping to prepare test method for approval of new item and examination.

COSMETICS

We can analyze domestic and imported cosmetics using MFDS test method. And we provide services for analysis of cosmetics raw material, preservatives and microbial limit test. In addition, we provide services needed for quality management and R&D of cosmetics.

Main Test Items

- pH, heavy metals, dioxane, methanol, microbial limit test etc.
- Functional cosmetics: whitening, wrinkle free, sunscreen, hair colorant, anti hair loss product etc.

Additional Test Items

- Analysis of 39 glucocorticoid steroids
- Analysis of the 26 allergens for cosmetic labeling in fragrance raw materials
- Cosmetic preservative effectiveness test
- Analysis of the verification for the labels and advertising in cosmetics (paraben-free etc.)
- Residual solvent analysis such as benzene, toluene, xylene

Cosmetic Container Inspection

- Heavy metals: lead, arsenic, mercury, antimony, cadmium, nickel, etc.
- Hazardous substances: phthalates(DBP, BBP, DEHP), etc.

QUASI-DRUGS AND DRUGS

KOTITI conducts test analysis service for the approval and examination of quasi-drugs and drugs from Ministry of Food and Drug Safety. In addition, we provide services needed for quality management and R&D of quasi-drugs, drugs.

Quasi-drugs Test Analysis Target

- Items: liquid preparation, semi-solid preparation, solid preparation, aerosol, textile preparation
- Product: sanitary pad, eye patch, bandage, gauze, absorbent cotton, lotions etc.

Drugs Test Analysis Target

- Items: oral-solid preparation, semi-solid preparation, other-solid preparation
- Product: extended-release preparations, enteric preparations,
- Hard capsule, soft capsule, extended-release capsule, enteric capsule, suppositories, granules

Key Tests and Inspection

- General test: identification test, content test, pH measurement, etc.
- Instrumental analysis test: HPLC, GC, AAS, UV-VIS, ICP-OES, etc.

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KOTITI provides a one-stop service for environmental regulations such as technical consulting, visit consultation, problem solving, education, government support project analysis, analysis of hazardous substances in electrical and electronic products and automobile industry.

ELECTRICAL AND ELECTRONIC INDUSTRY

KOTITI provides strategic and comprehensive response solutions according to the foreign and domestic regulations of electrical and electronic products. Expert and trusted KOTITI's test analysis services help you protect your brand image and eliminate potential business risks.

Overseas Restricted Substances Analysis Service

- RoHS/RoHS II: restriction on use of EU electrical and electronic products hazardous substance analysis
- REACH: EU new chemical substance management system high-risk candidate list analysis
- VOCs: analysis of volatile organic compounds in electrical and electronic products
- Other regulatory response analysis by country

Global Enterprise Regulatory Substance Analysis

- Analysis of restricted substances list (RSL) regulated by Samsung Electronics, LG Electronics, etc

Resource Circulation Law Response Service

- Responding to hazardous substances regulation, evaluation of improvement of material structure

AUTOMOTIVE INDUSTRY

KOTITI is a specialized test agency for hazardous substances under the Ministry of Trade, Industry and Energy, and a consulting agency for environmental regulation.

ELV(EU Regulations on Hazardous Materials and Recycling in Automobiles) Response

- Test for the detection of heavy metals subject to prohibition
- Car interior material combustibility test
- Odor test of automobile interior material
- VOC emissions test of vehicle interior materials
- Regulation for automobile flame retardant

Compliance with Vehicle Test Standards by Company

- Hyundai Kia: MS Spec
- GM: GMW Spec
- Renault Samsung: Renault Spec

TECHNICAL SUPPORT AND TRAINING

Process Establishment

- Process setting for environmental regulation compliance of product
- Process setting for chemical management
- Business system setting for response to customer requirements

Education/Training

- Professional manpower training for fostering hands-on staffs in company to responsible for environmental regulation compliance

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KOTITI is the food sanitary testing and inspection institute that was designated by Ministry of Food and Drug Safety, and also the national drinking water quality inspection institute that was approved by the National Institute of Environmental Research.

FOOD

Key Tests & Inspection

KOTITI provides a variety of analysis services for safety evaluation at every phase of production and distribution for different kinds of food and livestock products such as meat, dairy and simple foods.

With years of expertise in analyzing the substances of foods, KOTITI makes sure that professional and creditable technical support is provided to meet the stringent food safety regulations.

Test & Inspection Targets

- Food and food additives
- Livestock products
- Food utensils, containers and packaging
- Norovirus in food water
- Sanitary products
- Health functional foods

Test & Inspection Items

- Self quality inspection items
- Nutritional components
- Toxic substances
- Microorganism
- Norovirus
- Expiration date test
- GMO
- Pesticide residue, animal medicine and antibiotic

WATER QUALITY

Groundwater Quality Inspection

Groundwater can be divided into domestic water (drinking/non-drinking), agricultural water and industrial water depending on the purpose of use, and it can be used only when it is approved according to the Groundwater Law. KOTITI is a certified water quality inspection agency and conducts various related test analysis tasks including groundwater quality inspection.

Inspection Cycle and Inspection Items

- Drinking water: once every two years, inspection of microorganisms, harmful inorganic substances in health
- Domestic(non-drinking), agricultural, industrial water: once every three years, inspection of total coliform count

Inspection of Polluted Water and Waste Water

We carry out self-measurement of waste water discharge facility and preventive facility inspection of standard of discharge allowance by item of wastewater discharged in domestic sewage, factory, wastewater treatment facility etc.

- Biochemical oxygen demand
- Chemical oxygen demand
- Suspended solid
- Ecotoxic emissions
- pH, phenols, cyanide, chromium zinc, copper content, etc.

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Quality Inspection

KOTITI



Appropriate quality inspections based on professional judgment can be applied to check the suitability of the quality for specific or general requirements. The KOTITI experts promptly analyze and determine whether the product is suitable for each process or not. Also, our experts help to determine both the delivery as a finished product and the facility being inspected meet the buyer's requirements or not, so that the potential business risks can be nipped in the bud.

QUALITY INSPECTION TYPE

Total Inspection

It is a method to examine all the quantity of the goods to be inspected individually and classify them as good and defective products. Total inspection is appropriate in the case of expensive product, or the case of product which is needed to be sorted due to large amounts of critical defects.

Sampling Inspection

It is a method to determine the acceptance or rejection of a lot by examining the extracted sample and comparing the result with the judgment standard. Sampling inspection is appropriate when small amount of defective parts can be tolerable taken as a whole, and in case of numerous inspection items.

SERVICE ITEMS AND AREAS

Service Items

Fabrics, garments, bags, footwear, fashion accessories, consumer product, cosmetics, sewing products, furniture, chemicals, electric and electronics, camping goods, industrial products, automobile parts, beauty supplies, kitchen utensils, machinery and so on.

Service Area

Korea, China, Vietnam, Indonesia, Myanmar, Bangladesh, Cambodia, Thailand, Philippines, India and Italy, and more.

MAIN SERVICES BY PROCESS

Factory sourcing and ordering phase

- Company verification service (CVS)
- Quality management audit (QMA)
- Environmental audit (EA)
- Social accountability audit (SA)

Production stage

- Fabric inspection
- Production monitoring (PM)
- Initial production inspection (IPI)
- During production inspection (DPI)
- Sample picking (SP)

Shipment stage

- Pre-shipment inspection (PSI)
- Defect sorting inspection (DSI)
- Container loading supervision (CLS)

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Product Safety & Product Certification

KOTITI



KOTITI provides services to customers through the KC test and inspection of the items related to the Safety Management of Electrical Appliances and Household Goods Act and the Special Law on the Safety of Children's Products, which is a product certification body accredited by KAS (Korea Accreditation System), that conducts certification work to evaluate and demonstrate product safety and quality excellence.

PRODUCT SAFETY (KC)

Children's and Consumer products that are concerned about the life or body of a child or a consumer should be tested and certified before the factory or before import clearance. Safety-proven products can be used with the KC mark to help increase corporate credibility and brand awareness. KOTITI demonstrates the safety of the product, conducts all necessary work to obtain the KC mark, and guides you through the process.

PRODUCT CERTIFICATION (KAS)

KOTITI is a product certification body accredited by KAS (Korea Accreditation System). We have proven our excellence for products that have passed strict certification for domestic and foreign textile products and industrial products.

Korea Accreditation System (KAS)

Korea Accreditation System (KAS) is a national accreditation body established in 2001, and is carrying out accreditation work for product certification bodies. It is an active member of the Asia-Pacific Accreditation Council, a member of the International Accreditation Organization, and currently recognizes 19 product certification bodies in Korea.

Meaning of Obtaining KAS Accreditation

- Recognition by international standards (KS Q ISO/IEC 17065, etc.)
- Ensure that the operation of the certification body is consistent and reliable
- Availability of certification/qualification marks
- Application of harmonized standards
- The basics of mutual recognition
- Ensure reliability of a product, process, or service

KOTITI Test and Certification Service

Children's Products

Safety Certification
Safety Assurance
Supplier's Assurance of Conformity

Consumer Products

Safety Certification
Safety Assurance
Supplier's Assurance of Conformity

* Consumer Products Subject to Safety Standards

* No KC marking requirement

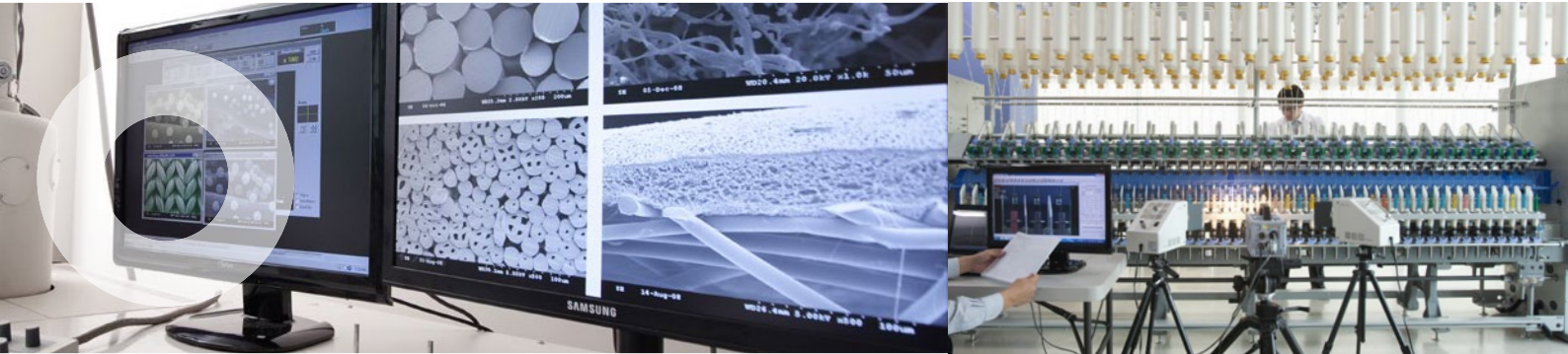


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Research and Development

KOTITI



Since its establishment in 1961, KOTITI has been carrying out various research and development based on its accumulated know-how, professional staff, advanced research facilities, information and technical data. We have established the PILOT process research center for the first time in Korea, providing various technical support to textile industry companies. We provide professional education & training programs for textile industry employees and publish textile books and periodicals to transfer the latest technical information and market trend.

KOTITI R&D

KOTITI conducts research and development work for all stages from textile to apparel to develop the textile industry and enhance competitiveness. We are pursuing research activities on various topics including new spinning technology, new product development, eco-friendly research, wearable electronics, and development of new evaluation methods. In addition, we are actively carrying out technology transfer and technical support in order to spread the performance and strengthen the competitiveness of the industry by concentrating on the development of practical application technology of the demand enterprise.

- High value-added new technology and new material development: multi-effect yarn, X-heat, X-sweat, Ecocell⁺, DRY·est, etc.
- Transfer of patent technology to company and joint research and development
- Participated in government-funded R&D projects
- Development of new test methods such as tests for adhesive property of raw cotton in the spinning mill, hygroscopic exothermic property, environmentally friendly textile quantitative chemical test method and establishment of national and international standard.
- KS(national standards) and ISO(international standards) activities
- IEC international standards activities

PILOT PROCESS RESEARCH CENTER

KOTITI is the first in Korea to establish a pilot spinning line from the blowing process to the winding process to provide the latest facilities and technical support services to textile companies.

- Support for manufacture of spinning yarn, fabric and knitted fabric prototypes
- New material, new product development support

PUBLICATIONS

KOTITI publishes books about textiles information and specialized issues and also provides periodicals about the latest textile technology information and market trends.

- KOTITI on-line library
- KOTITI webzine: recent news and information on the textile industry
- Textile books: textile handbook, casebook of complaints about clothing etc.

EDUCATION & TRAINING

KOTITI provides professional textile education and training services to help improve the ability of textile industry workers.

- HRD ability magnified program (supported by the Ministry of Employment and Labor)
- Customized training programs for individual companies

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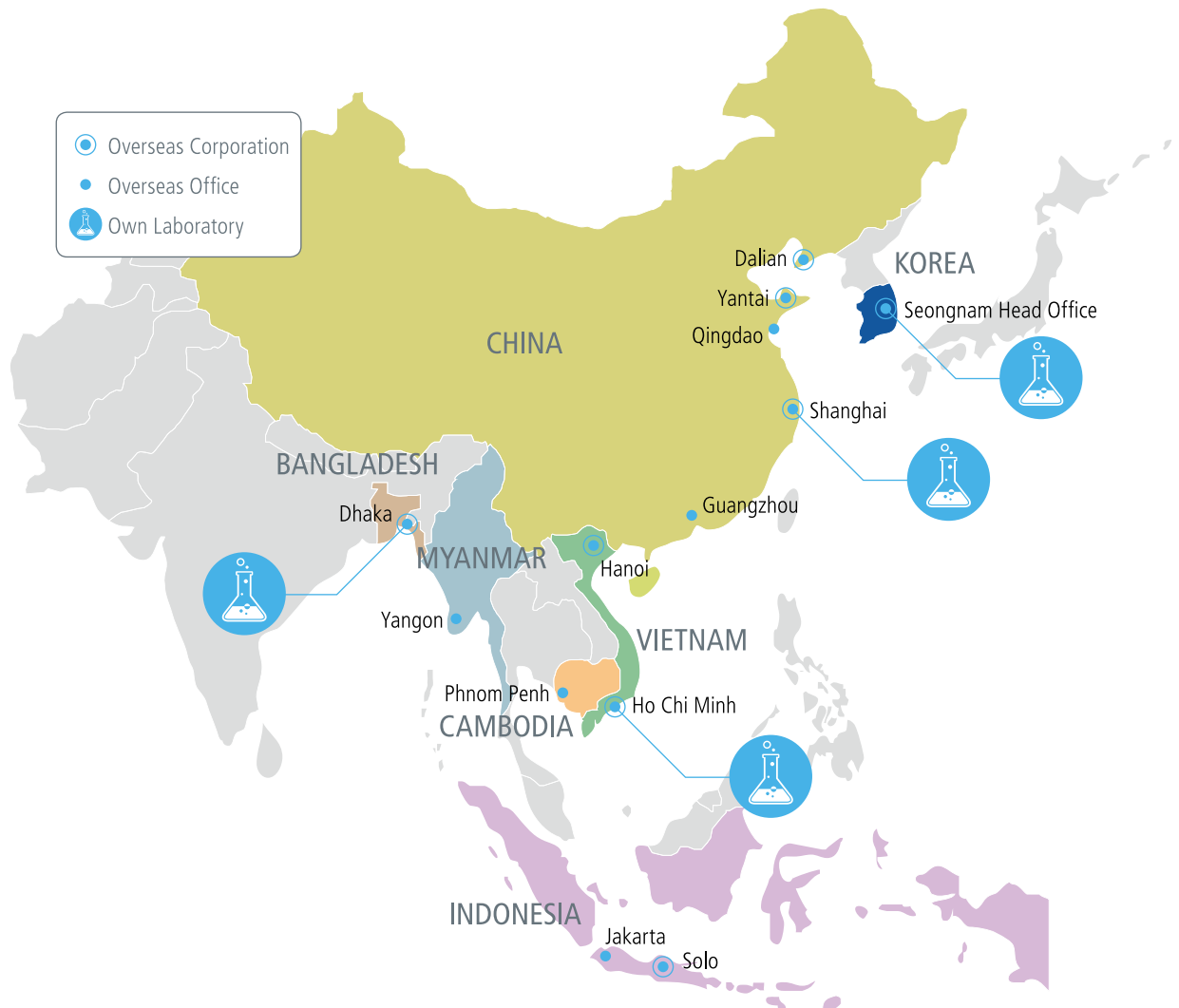
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Global Network

KOTITI



KOTITI has established overseas corporations and offices in 12 regions in 6 countries. Of these, Shanghai, Ho Chi Minh and Dhaka corporations have their own laboratories, so they can actively and promptly respond to the diverse and demanding demands of the global market.



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