

## **WCO Regional Customs Laboratory: Nanjing Customs Laboratory in China (RCL China)**

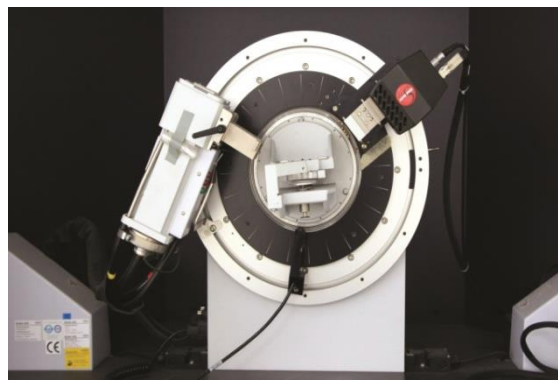


*Photo 1: Laboratory Building*

On June 24, 2021, the former Minister of the General Administration of Customs of China (GACC), and Secretary General of the World Customs Organization (WCO), signed the Memorandum of Understanding on the Establishment of a WCO Regional Customs Laboratory (RCL) in China, officially conferring the status of WCO RCL on the Nanjing Customs Laboratory of GACC.

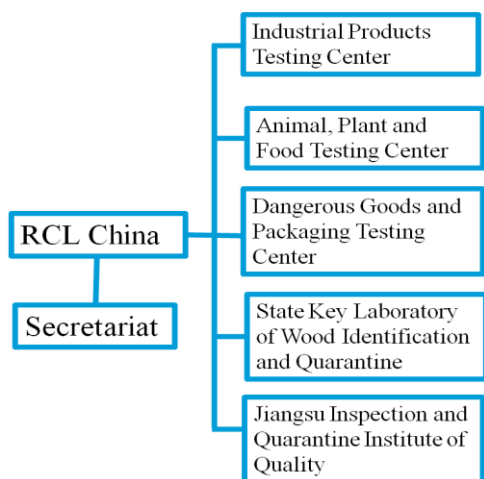
As a new member of the WCO RCL family, Nanjing Customs Laboratory is committed to providing regional Customs with capacity building, technical assistance and information-sharing service in areas such as commodity classification and testing, solid waste attribute identification, endangered species identification, food safety testing, classification and identification of hazardous chemicals, etc., to enhance regional Members' communication and cooperation in Customs laboratories, and promote trade security and facilitation of the region.

Nanjing Customs laboratory is located in Nanjing, the capital city of China's Jiangsu Province, a city also known as China's "Ancient Capital of Six Dynasties". Covering an area of 48,000 square meters, the laboratory has 1665 sets of instruments and equipment such as LC/Q-TOF, GC/Q-TOF, UPLC-MS/MS, GC-MS/MS, ICP-MS, digital NMR spectrometer, the fully automatic gene analyzing system, the AI identification system, etc., with a total value of 38.55 million USD.



*Photo 2 & Photo 3: Testing Instruments*

The laboratory currently has 367 technical personnel including professors, associate professors and other experts. It is designated, accredited or authorized by international organizations such as the Association of Official Analytical Chemists (AOAC), Technischer überwachungs Verein (TUV), Australian Wool Testing Authority (AWTA), the International Air Transport Association (IATA), etc. It's also a member of the International Association of Wool Textile Laboratories (INTERWOOLLABS), the Technical Committee of the International Down and Feather Bureau (IDFB), the American Society for Testing and Materials (ASTM), the Unique Manuka Factor Honey Association (UMFHA) and the International Association of Wood Anatomists (IAWA). The laboratory has obtained 16,000 testing items that are accredited by authoritative institutions.



RCL China comprises a secretariat and five departments, namely the Industrial Products Testing Center, Animal, Plant and Food Testing Center, Dangerous Goods and Packaging Testing Center, State Key Laboratory of Wood Identification and Quarantine, and Jiangsu Inspection and Quarantine Institute of Quality.

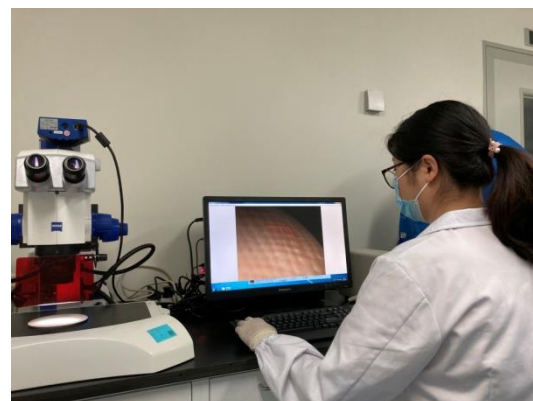
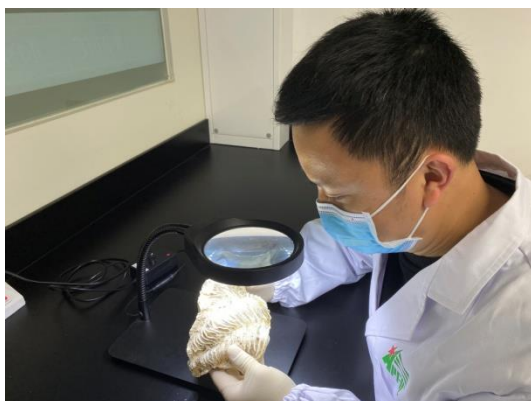
*Photo 4: Structure of RCL China*

Industrial Products Testing Center provides technical services mainly in four areas, including commodity inspection, solid waste identification, testing for classification and risk monitoring. In the recent two years, tested and inspected by the Center, 1,476 out of 19,751 lots of commodities were found unqualified; 57 out of 957 lots of commodities were identified as solid waste, 6, 498.65 tons of solid waste were kept out of border. 182 lots of commodities were tested for classification, 19 discrepancies were found. 277 pieces of risk monitoring information were submitted to the GACC.



*Photo 5 & Photo 6: Solid Waste Identification*

Animal, Plant and Food Testing Center undertakes inspection of imported and exported food, and quarantine of imported and exported animal and plant and their products. It also has an identification capacity of 741 endangered species. Since 2021, the Center has identified 37 endangered species, detected 86 batches of marine pollutant. A total of 821 quarantine pests have been identified, and 18 species of which have been identified for the first time in China. The Center provided key technical supports to China Customs activities, such as the "National Green Shield 2022", meat food risk assessment, and import and export food risk monitoring.



*Photo 7 & Photo 8: Tridacna and Ivory Identification*

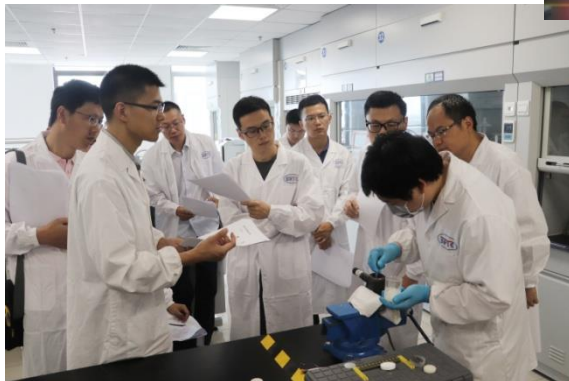
Dangerous Goods and Packaging Testing Center owns three state key laboratories for dangerous goods and packaging, hazardous chemicals, and food contact material. The Center has set Risk Monitoring work station and Training Center of Entry-exit Inspection of Dangerous Goods and Packaging. Over the past five years, the Center has led or participated in the development or revision of 9 national standards and 2 industry standards. Since 2022, the Center has completed 5798 batches of customs entrusted testing tasks, the forms of samples included dangerous goods, packages of dangerous goods, food contact materials, etc. Among all samples, 363 batches were found unqualified or inconsistent with the declaration.



*Photo 9: Packaging Testing*



*Photo 10: Hazardous Chemicals Classification*



*Photo 11: Customs Officers Training*



*Photo 12: Training Center of Entry-exit Inspection of Dangerous Goods and Packaging*

The State Key Laboratory of Wood Identification and Quarantine is the only laboratory specializing in wood species identification in China Customs. It has developed 70% of national standards for wood species identification in China. In the last two years, the

Laboratory finished 1,151 batches of customs entrusted identification tasks from 16 different Customs Districts, the forms of samples included logs, boards, furniture parts, wooden crafts, etc. According to the identification results, 873 batches were inconsistent with the declaration. Out of which, 314 batches were endangered wood species, including several CITES (Convention on International Trade in Endangered Species of Wild Fauna and Flora) controlled wood species.



*Photo 13: Endangered Wood Species Identification*

Jiangsu Inspection and Quarantine Institute of Quality is the training department of RCL China. It has adopted a standardized training model that features the combination of expert lectures, workshops and field visits, built “three databases and one platform” (namely, the database of training resources, the database of translator resources, the database of field visit sites and the training management platform), and established a training system featuring advanced management methods, a strong team of management staff, lecturers, translators and interpreters, and rich training resources.



*Photo 14: “Three-in-One” Standardized Training Mode*

The training languages include English, French, Russian, Spanish, Arabic, Mongolian, Lao, Cambodian and Portuguese. Up to now, a total of 253 seminars and training programs of various topics have been held, involving 7,651 officers and technical personnel from Customs, inspection, quarantine and standardization agencies of 148 countries (regions) and international organizations.



*Photo 15: Training Facilities and Equipment*

Jiangsu Inspection and Quarantine Institute of Quality provides 7 meeting rooms, several multifunctional halls, 5 multimedia training rooms, 3 remote online training rooms, 260 guest rooms, 27 Chinese-style private dining rooms and a western-style restaurant that accommodates 300 people. It can simultaneously host multiple online or offline meetings, training programs and workshops.

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