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Scope and Disclaimer

Dear customer, thank you for choosing NEST products. The information provided in this document is intended to assist you in applying NEST products to your production, processes, or systems.

Please note that, unless otherwise stated, NEST is only responsible for the authenticity of the NEST issued test or validation reports in this document. Additionally, NEST guarantees the authenticity of the statements made by NEST in this document. NEST also relies on test reports, documents, and other information provided by raw material suppliers and direct component suppliers to provide you with validation results. Documents from supplier sources may be requested to be provided by NEST or directly obtained from the supplier.

NEST has also commissioned third parties to conduct some tests or validations, and the authenticity of the results is guaranteed by the commissioned third parties. As of the revision date of this version, NEST believes that all the information contained in this document is accurate and reflects our knowledge truthfully. Key information of the product, such as raw materials and processing technology, will not be changed until NEST completes the full validation. If you find any discrepancies between the key information in the more recent document issued by NEST and the content of this validation report, it means that the relevant content of this validation report has expired. Please contact us to obtain an updated validation report. We will regularly review and update this document to ensure that you receive the most accurate information possible.

The tests and reports provided in this document apply to NEST products listed in the "Product List" and the scope of validation is limited to the recommended performance and application conditions of NEST products. Extra validation is required for the use beyond the performance and application scope stated by NEST, or contact us for additional testing.

Finally, if you have any feedback on the content of this document or have more detailed requirements for the information in this document, please feel free to contact NEST via the phone or email provided below. We are happy to have our products undergo more testing and challenges, and further improve our products and services.

Below are our contact details:

NEST Biotechnology Co., Ltd.

Email: info@cell-nest.com

Chapter 1 Introduction and Overview

1-1 Company Profile

Leading comprehensive service provider in the field of life sciences

NEST Biotechnology Co., Ltd. (hereinafter referred to as "NEST") was established in 2009 and created the NEST® brand. With the belief of "producing high-end consumables and creating internationally renowned brands," NEST focuses on the research and development and manufacturing of products in the field of life sciences. NEST has 6,800m² of Class 100,000 clean-rooms, 2,700m² of Class 10,000 clean-rooms, mature production processes, advanced machinery and equipment, a professional research and development center, and a senior management team. It is a leading comprehensive service provider for the multi-field development in the life sciences industry.

In 2013, the US subsidiary was officially established. In 2022, subsidiaries in Rotterdam, the Netherlands, Sharjah, United Arab Emirates, and Tokyo, Japan were established. The new warehouse in the western United States has been completed, providing integrated storage, transportation, and sales services, guaranteeing the supply of NEST products in worldwide markets. With the continuous increase in business volume, NEST's footprint has spread all over the world and is exported to many countries and regions including North America, Europe, Southeast Asia, the Middle East, Japan, South Korea, and India.

Introduction of advanced equipment to ensure quality stability

To ensure stable quality and achieve seamless integration of "raw material procurement - production - packaging - sterilization - delivery," NEST invested 150 million in 2012 to build a 27,000m² plant with dust-free clean-rooms and introduced the international advanced electron irradiation equipment Rhodotron-TT200 (irradiation sterilization process certified by ISO13485 and ISO11137 quality systems). NEST also imports medical-grade raw materials that meet USP Class VI standards and standardized production in accordance with GMP quality management specifications. It has obtained ISO 9001, ISO 13485, ISO 11137, FDA, CE certification, and medical device production licenses. In 2021, NEST added 4,500m² of Class 100,000 clean-rooms and 1,500m² of Class 10,000 clean-rooms for the production of medical devices and pharmaceutical packaging consumables.

NEST product line - laboratory consumables, medical devices, pharmaceutical packaging consumables, laboratory instruments, biological reagents

NEST products mainly include disposable consumables (cell biology, bioprocessing, liquid handling, general testing, molecular biology consumables), medical devices, innovative pharmaceutical packaging consumables, laboratory instruments, and biological reagents (cell culture reagents, testing reagents, etc.). They are widely used in new drug development, vaccine research and production, cell therapy, medical aesthetics, biomedical research, *in vitro* diagnostics, and other fields. NEST products have wide coverage, comprehensive specifications, and complete qualifications to meet different customer needs.

Customization services

NEST has strong capabilities in mold design, precision machining of machine tools, and plastic molding. In addition to selling standard products, we also provide various customized services to the industry.

1-1-1 Production Base and Warehouses

Chinese Branch

Departments and Functions: Research, Production, Marketing, Sales, Warehousing.

Mainly serving countries and regions: China

Jiangsu, China R&D and Warehousing Base

Production and Storage Area: 26,888 m²

Location: Wuxi, Jiangsu, China

US Branch

Departments and Functions: Marketing, Sales, Warehousing.

Mainly serving countries and regions: North America, South America

Research and Warehousing Base in Woodbridge, New Jersey, USA

Warehousing area: 3300m²

Location: Woodbridge, New Jersey, USA

Warehouse in Phoenix, Arizona, USA

Warehousing area: 4500m²

Location: Phoenix, Arizona, USA

Netherlands Branch

Departments and Functions: Sales, Warehousing

Location: Rotterdam, Netherlands

Mainly serving European regions

United Arab Emirates Branch

Departments and Functions: Sales, Warehousing

Location: Sharjah, United Arab Emirates

Mainly serving the Middle East and North Africa regions

Japan Branch

Departments and Functions: Sales

Location: Tokyo, Japan

Mainly serving East Asia regions

We are also actively expanding our warehouse network and business scope to better serve our customers. We believe that NEST's global vision and warehouse layout will bring more value and advantages to our customers.

1-2 Quality Compliance, Registration and Certification

NEST evaluates, controls and manages the quality of its products according to relevant international standards. NEST also ensures quality compliance and registration certification to ensure the safety, reliability, and effectiveness of its products, as well as to meet international legal requirements. These measures aim to reduce product quality issues and risks and improve production efficiency and management level. If you need to obtain NEST's quality compliance and registration certificates, please refer to the appendix or download them from the official website www.cell-NEST.com.

1-2-1 ISO9001, ISO 13485

ISO9001 is a certification for quality management systems applicable to organizations of various types and sizes. Its purpose is to help organizations achieve customer satisfaction and continuously improve their business processes. ISO13485 is a certification for medical device quality management systems, applicable to manufacturers, suppliers, and distributors, ensuring that their products comply with relevant regulations and legal requirements for medical devices.

NEST's ISO9001 and ISO13485 certifications are authorized by TÜV Rheinland, an authoritative EU notified body. TÜV Rheinland Group is authorized to conduct assessments for industrial and consumer products to ensure that NEST's products comply with most EU directives and regulations.

1-2-2 CE Certification: EU MDR

CE MDR is the latest European Union regulation for medical devices. Its implementation strengthens the regulation of the safety and effectiveness of medical devices, standardizes the medical device market, and ensures public drug safety and health. NEST's relevant products comply with the regulations of CE MDR, ensuring that the production of medical devices meets the relevant EU laws, regulations, and technical standards, and possesses safety and effectiveness. NEST obtained the CE certificate authorized by TÜV SÜD, an authoritative institution accredited by the European Union, in 2020.

1-2-3 FDA Registration

Since 2011, NEST has registered and sold its products with the US FDA. Our products comply with relevant US laws, regulations, and technical standards, and possess safety and effectiveness.

1-2-4 Medical Device Production License

NEST obtained a medical device production license in 2021. We have various medical device products, including reusable pen injectors, disposable pen injectors and disposable nasal drug delivery atomization devices. High-precision pen injectors are challenging medical devices that require high-precision processing equipment and technology, as well as strict quality control. Therefore, for companies to obtain a production license for high-precision pen injectors, they need to have high technical capabilities and quality assurance. We apply the same technical capabilities and quality control requirements to our laboratory consumables.

1-3 Quality Management System

NEST quality management system is implemented in accordance with the requirements of ISO9001, ISO13485, and relevant international regulations, and has obtained relevant certifications. NEST takes various measures such as employee management and training, equipment validation, supply chain management, and production environment control to ensure the stability and reliability of product quality. If you need to review related system documents, records, etc., please contact us for on-site factory inspection, and we will provide corresponding information.

1-3-1 Personnel

NEST emphasizes the management and training of employees, ensuring that all employees strictly adhere to the requirements of the operating instructions through on-boarding training, job training, regular rotation training, and job rotation training, to ensure that the entire product production process complies with the validated process requirements.

1-3-2 Production and Testing Equipment Validation

NEST releases all machinery and equipment (including production equipment and testing

equipment) for the production process through three stages: installation qualification (IQ), operational qualification (OQ), and performance qualification (PQ), to ensure that the equipment parameters meet the design requirements and can guarantee stable and reliable product performance. Testing equipment is also regularly tested and calibrated. These equipment include but are not limited to:

Production equipment:

- Injection molding machine and corresponding molds
- Automatic assembly equipment, welding equipment, surface treatment equipment, automatic packaging equipment, etc.

Testing equipment:

- Leak testers, flatness gauges, insoluble particle detectors, angle measurement devices, etc.

1-3-3 Incoming Material Control

NEST also implements strict control over supplier admission and approval of raw materials/packaging materials. The company ensures that all raw materials/packaging materials meet product technical requirements through layered control in the following steps:

- Supplier questionnaires
- Supplier on-site audits
- Raw material/packaging material report review
- Raw material/packaging material performance validation
- Raw material/packaging material batch inspection

The implementation of these measures ensures the stability of the supply chain and the quality of the products. This section will also include NEST's relevant statements regarding the control of raw materials and packaging materials.

1-3-3-1 Raw Material Compliance Statement (USP Class VI)

The raw material particles or finished products used in NEST products are provided by manufacturers that meet relevant tests for USP Class VI, ISO 10993, or GB/T 16886, including but not limited to PS, PC, PET, PETG, PP, and others. At the same time, NEST products are rigorously tested by third-party laboratories (with CNAS or CMA qualifications) according to the following standards to ensure compliance with the relevant requirements.

Test Item	Test Standard
<i>In vitro</i> cytotoxicity test	GB/T 16886.5-2017 / ISO 10993-5:2009, USP<87>
Skin sensitization test	GB/T 16886.10-2017 / ISO 10993-10:2010, USP<88>
Acute systemic toxicity test	GB/T 16886.11-2011 / ISO 10993-11:2017, USP<88>
<i>In vitro</i> hemolysis test	GB/T 16886.4-2003 / ISO 10993-4:2002
Skin irritation test	GB/T 16886.10-2017 / ISO 10993-10:2010, USP<88>

1-3-3-2 TSE/BSE/GMO Statement

All products in this binder produced by NEST do not use any animal-derived or genetically modified ingredients or tissues throughout the entire production process, and have no TSE/BSE/GMO risks.

1-3-3-3 REACH

NEST strictly complies with the EU regulation "Registration, Evaluation, Authorization and Restriction of Chemicals" (2006/1907) (REACH) and controls the highly concerned substances (SVHC) in the raw materials.

1-3-4 Production Environment Control

1-3-4-1 Qualification of 100,000 and 10,000 Level Clean-Rooms

NEST has multiple clean-rooms that meet ISO14644 Class 7/8 standards. They undergo periodic monitoring by third parties to ensure compliance with product manufacturing and packaging requirements. Please contact us through our official website or email to obtain the clean-room qualification testing report.

1-3-4-2 Methods for Clean-Room Environmental Control

NEST conducts periodic monitoring of dust particles, airborne bacteria, settle plate counts, air exchange rates, temperature, humidity, pressure differentials, and compressed air in clean-rooms, in accordance with ISO14644 requirements and company procedures, to ensure compliance with

regulatory requirements for clean-room environments.

1-3-4-3 Qualification of Sterility Testing Laboratory

NEST has a Biosafety Level 2 (BSL-2) sterility testing laboratory. It conducts testing of the production environment according to clean-room environmental testing procedures to ensure the safety and reliability of the production environment, and that the final products meet customer requirements.

1-3-4-4 Purified Water System Validation

NEST has multiple purified water systems used for cleaning clean-rooms, clean-room garments, and tools, ensuring the quality of water used in clean-rooms. The company conducts periodic water point testing to test the properties, acidity/alkalinity, ammonia, conductivity, nitrates, nitrites, oxidizable substances, non-volatile matter, heavy metals, and microbiological limits of purified water, to ensure compliance with the requirements of the Chinese Pharmacopoeia (2020 edition) and European Pharmacopoeia(2020) <Purified Water> section.

1-4 Product Verification and Quality Control

During the product validation process, NEST will test all performance items of the product according to internal product technical requirements to ensure that the product meets the design requirements. NEST products go through product design validation, process window validation, performance validation, small-batch trial production, and three-batch production tracking during the development stage to ensure that the products are produced stably and reliably, meeting the product design requirements.

After the product validation is completed and mass production is achieved, some of the early-stage validated product performance test items will be transformed into periodic monitoring and batch testing items to control the consistency of product quality. Periodic monitoring is conducted regularly based on different products and test items, while batch testing is conducted before each batch of product processing and release to ensure that any product quality issues are promptly identified, intercepted, and corrected during the production process.

1-4-1 Product Performance Validation

Product performance validation refers to a series of tests and validations to check whether the product meets the predetermined performance parameter requirements and user usage needs. The results of the validation can be used to determine whether the product can enter the next stage of development or production. These validations include, but are not limited to:

- Application performance validation of finished products
- Biocompatibility testing of finished products
- Extractable and leachable substance testing of finished products
- Shelf life validation of finished products
- Transportation validation of finished products

1-4-2 Periodic Monitoring

Periodic monitoring of products refers to regular testing and evaluation of finished products to ensure that they continue to meet quality and performance requirements during use. This type of monitoring helps identify problems with the production process or quality testing process that have a moderate level of risk and take necessary measures for repair or replacement in a timely manner. Periodic monitoring varies depending on the product type and purpose, including, but not

limited to:

- Sterility testing
- Nuclease testing
- Endotoxin testing
- Insoluble particle testing

1-4-3 Batch Testing

Process inspection and batch release testing are important methods for product quality management, which can control the quality of semi-finished products and pre-released finished products, ensuring stability and consistency of product quality. The advantage of batch testing is the ability to detect problems as soon as possible throughout the entire process, thereby reducing production costs and improving product quality. These testing items include, but are not limited to, the following for semi-finished and finished products:

- Dimensional inspection
- Appearance inspection
- Semi-finished product application performance testing
- Component compatibility testing
- Random sampling of finished product application performance
- Packaging and boxing inspection

1-5 Electron Beam Sterilization and Sterility Assurance

Electron beam sterilization is an efficient sterilization method that has been widely used in industries such as medical devices, pharmaceuticals, and food. It has many advantages compared to gamma radiation sterilization, including lower maintenance costs, faster processing time, higher processing capacity, and no generation of radioactive waste or hazardous substances. The use of electron beam sterilization is a trend driven by policies and environmental requirements.

1-5-1 ISO 11137

NEST's electron beam sterilization process complies with the ISO11137 quality system, which adds a certification system for product sterilization on the basis of ISO13485. NEST's subsidiary, Futen, obtained the ISO certification authorized by TÜV SÜD, an authoritative institution accredited by the European Union, in 2020. The electron beam sterilization process of NEST products is validated and carried out by Futen, including the validation process of bioburden assessment, sterilization dose setting and loading method validation, sterile packaging validation, and sterility inspection.

After electron beam sterilization, NEST products can achieve a sterility assurance level (SAL) of 10^{-6} , ensuring the sterility of the parts in contact with liquids. The basis for electron beam sterilization includes the sterilization label on the product outer packaging, COA, COC, and irradiation process validation report. If you need to obtain the relevant test reports, please contact us.

1-5-2 Bioburden Assessment

Bioburden refers to the number and types of microorganisms present on the surface or object before sterilization. Its assessment is carried out to ensure an appropriate sterilization dose is applied to all microorganisms present on the product, effectively killing them. NEST's bioburden assessment method for products involves initial microbial contamination testing according to the relevant standard ISO 11737-1 and GB/T 19973.1-2015. In addition, NEST also controls the level of initial contaminants by periodically monitoring the cleanliness of the clean-rooms.

1-5-3 Sterilization Dose Setting and Loading Method

Validation

After setting the minimum sterilization dose based on the initial contamination level, irradiation is performed during the actual production of the product according to the recommended optimal dose of $\pm 10\%$ as per ISO11137-2, and GB/T 19973.1-2015. The loading method for NEST products during sterilization is based on the characteristics of the internal structure of the product. Through operational qualification (OQ) testing, an optimized distribution of sterilization dose is achieved, ensuring a sterility assurance level (SAL) of 10^{-6} for NEST products.

1-5-4 Sterile Packaging Validation and Sterility Inspection

NEST performs sterile packaging validation on products that have undergone accelerated aging according to ASTM's packaging leakage standard test methods. Regular sterility inspections are conducted to provide additional validation of the electron beam sterilization process.

NEST's Biosafety Level 2 (BSL-2) sterility testing laboratory conducts sterility inspections of products according to the product testing specifications to ensure the safety and reliability of the production environment, as well as the effectiveness and reliability of the electron beam sterilization process, in order to produce final products that meet customer requirements.

1-6 Supply Chain Stability and Lead Time

To ensure the stability of the supply and timely delivery, NEST employs the following measures to manage the supply chain and lead time:

- Long-term supply contracts: NEST signs long-term supply contracts with customers to ensure stable supply over a certain period of time.
- Safety stock: To address unforeseen circumstances during production, the company maintains a certain quantity of safety stock.
- Timely scheduling: Based on customer orders and inventory status, NEST adjusts production plans promptly to ensure timely delivery.

1-7 Traceability

NEST maintains the following methods to trace the production and transportation processes of its products:

- **Batch information:** Information about each product batch is recorded through batch coding, which enables traceability of key process inspection data and test results. Customers can use this information to trace the production of the product.
- **Production records:** In NEST's production process, process inspection data is retained at each process step, including raw materials, injection molding, and other product processing techniques. This data can be used to trace the production of the product.
- **Sample retention:** Samples are retained for each batch of products, allowing customers to trace the production of the product.
- **Transportation process inspection:** In addition to the production process, NEST also conducts inspections of the transportation process to ensure that the products are not damaged or compromised in quality during transportation.

1-8 Shelf Life

NEST determines the shelf life of products by conducting accelerated aging tests in accordance with YY/T 0681.1-2018 or ASTM F1980. The start time for calculating the shelf life is the production period of the product, as indicated by the batch-numbered accompanying COA/COC of NEST products. The duration of the shelf life for general products can be found in the COA/COC and the official product technical documents on the website.

Unless otherwise specified, the general storage conditions for NEST consumable products include a relative humidity not exceeding 80%, an ambient temperature of 10-30°C, and a light-free environment. During transportation, precautions should be taken to prevent mechanical impact or contact with sharp objects, avoid exposure to sunlight and rain, ensure intact packaging, and prevent product contamination. Air transportation is not recommended.

Chapter 2 NEST Centrifuge Tube

2-1 Introduction

NEST large-capacity conical centrifuge tubes are suitable for the separation and collection of large-volume samples such as cells, supernatant, bacteria, yeast, and tissue. They meet the requirements of biological analysis and are widely used in life science research and clinical laboratory operations.

The specific applications of NEST large-capacity conical centrifuge tubes include tissue and cell culture, laboratory research, vaccine production, and centrifugation-based collection of other biological products. These tubes are mainly intended for industrial customers in the biomedical industry, biopharmaceuticals, and vaccine manufacturing sectors.

2-2 Overview of Centrifuge Tube Product Line

The NEST large-capacity conical centrifuge tube product line covered in this report includes the following specifications:

Specification I: Tube volume (250 mL / 500 mL)

Specification II: Cap material (HDPE / PP)

Specification III: Packaging type (bagged / racked)

For detailed product codes and specifications, please refer to the appendix.

Product photos

Large-capacity conical centrifuge tube



250ml Centrifuge Tube

500ml Centrifuge Tube

2-3 Product Parameters

Product name	Large-capacity conical centrifuge tube
Material	Body: Polypropylene (PP), compliant with USP Class VI Cap: High-density polyethylene (HDPE) or polypropylene (PP), compliant with USP Class VI. Gasket: Silicone, compliant with USP Class VI.
Dimensions	See appendix for details
Sterilization	Electron beam sterilization, sterility assurance level: SAL=10 ⁻⁶ . This product has been irradiated and dose released in accordance with ANSI/AAMI/ISO 11137.
Shelf life	3 years from the date of production (assuming intact packaging)
Non-pyrogenic	Reference USP<85> and "Chinese Pharmacopoeia" endotoxin test method, endotoxin level <0.05 EU/mL.
Insoluble particles	Reference USP<788> and "Chinese Pharmacopoeia", insoluble particle test method, ≤ 25 particles/mL for particles ≥10μm, ≤ 3 particles/mL for particles ≥ 25μm.
DNase/RNase-free	Reference USP<1225><1130> and "Chinese Pharmacopoeia", nucleic acid enzyme test method, tested DNase/RNase-Free.
BSE/TSE/GMO	No animal-derived or genetically modified ingredients or tissues, no TSE/BSE/GMO risks.
Production environment and raw materials	Produced in a 100,000-class clean environment, workshop environment complies with ISO Class VIII standards.
Structural Design Features	<ol style="list-style-type: none"> 1. The cap features a unique sealing structure with dual safety design to ensure reliable sealing. 2. An additional gasket has been added to the 500 mL large-capacity conical centrifuge tube to further enhance sealing performance. 3. The thickened conical bottom design increases the maximum centrifugal limit, with a maximum centrifugal force of 7,000 ×g.
Process Features	1. Manufactured using injection stretch blow molding (ISBM), also known as the one-step injection stretch blow molding process. No foreign substances or chemical additives are introduced, eliminating the risk of unknown extractables. The one-piece design enhances

	<p>mechanical strength.</p> <p>2. The thickened bottom provides high mechanical strength, making the tube suitable for high-speed and large-volume sample centrifugation and collection.</p> <p>3. Passed pressure sealing tests to ensure leak prevention.</p> <p>4. Accurate and clear volume graduations facilitate liquid addition and data reading.</p>
<p>Packaging Features</p>	<p>1. The packaging includes a traceable code for easy product tracking.</p> <p>2. Various packaging options are available, including bagged and racked formats, allowing customers to choose according to their needs.</p>

2-4 Product Raw Materials and Packaging Information

- Large-capacity conical centrifuge tube

PP - Polypropylene (finished product passed USP Class VI testing)

- Main Components

Sealing Cap

HDPE – USP Class VI

PP – USP Class VI

Gasket

Silicone – USP Class VI

- Product Packaging

Composite plastic: complies with the standards QB/T 1571-1993 and YBB00132002-2015 – General Requirements for Medicinal Composite Films and Bags.

Chapter 3 Product Testing

3-1 Product Testing Summary

Product Performance Verification Tests	Periodic Monitoring Tests	Batch Release Tests
Shelf Life Testing	Sterility Check	Appearance and Dimension Inspection
Drop and Transport Testing	Endotoxin Check	Cap-to-Tube Compatibility Testing
Biocompatibility Testing	Nuclease Testing	Sealing Testing
Extractables Testing		Centrifugation Testing
Bioburden Testing		Freezing Testing
		Volume Testing

In addition to the test report attached to this chapter, please contact us for the originals of other test reports.

Product Performance Verification Tests

Shelf Life Validation: Samples are subjected to accelerated aging to verify that sealing, centrifugation, and sterility requirements are met, confirming the product’s shelf life. The test conditions involve placing large-capacity PP conical centrifuge tubes in a temperature-controlled aging chamber for the aging experiment. According to the shelf life validation standard formula, the product can be stored at room temperature for 3 years. After aging, sealing and centrifugation tests are performed. The results show that after aging, the sealing test, centrifugation test, and sterility test all pass, demonstrating that the packaged product can guarantee a 3-year shelf life.

Drop and Transport Validation: Finished packaged large-capacity conical centrifuge tubes undergo real-world long-distance transport and drop tests. The bumps, handling, and drops during transportation do not cause damage to the product or its packaging.

Biocompatibility Testing: Product biocompatibility is tested according to GB/T 16886 and ISO 10993 relevant methods.

Extractables Testing: Testing for heavy metals (lead, tin, cadmium, chromium), residue on ignition, and extractables (reducing substances, pH, UV absorbance, appearance) is conducted according to GB/T 14233.1-2008 and USP <665> and <1665> standards. All test results must not exceed the standard limits.

Bioburden Testing: Product bioburden assessment is performed with reference to GB/T 19973.1-2015 and ISO 11737-1 standards, controlling the initial contamination level of the product.

Periodic Monitoring Tests

Sterility Testing: After sterilization, packaged products are tested for sterility according to the 2020 edition of the Chinese Pharmacopoeia, GB/T 19973.2-2018, and ISO 11137 standards. Test samples show no microbial growth, and both positive and negative controls show no abnormalities. Sampling is done proportionally.

Endotoxin Testing: Endotoxin content is tested following the 2020 edition of the Chinese Pharmacopoeia and USP <85> standards. The endotoxin level must be ≤ 0.05 EU/mL. Sampling is done proportionally.

Nuclease Testing: Samples undergo nuclease testing according to the 2020 edition of the Chinese Pharmacopoeia and USP <1225> and <1130> methods. Sampling is done proportionally. Provided that positive and negative controls show no abnormalities, no DNase or RNase should be detected in the samples.

Batch Release Tests

Appearance and Dimension Inspection: According to the process inspection standards for large-capacity conical centrifuge tubes, the product's appearance and dimensions are controlled using visual inspection and gauge measurement methods. Appearance criteria include no damage, cracks, dents, impurities, or burrs. Dimensional controls focus on tube length, width, inner and outer diameters of the mouth, and wall thickness.

Cap-to-Tube Compatibility Testing: Based on the process inspection standards for large-capacity conical centrifuge tubes, the fit between the threads and cap is tested. Issues such as overtightening, stripped threads, or sticking are controlled to ensure the product meets test requirements.

Seal Testing: According to the process inspection standards, sealing performance is controlled by applying negative pressure. The test involves filling the sample with water, tightening the cap, and inverting it inside a vacuum drying oven to maintain pressure. Results show no leakage or cracking between the tube and cap.

Centrifugation Testing: Following the process inspection standards, the sample's maximum centrifugation tolerance is tested by centrifuging filled samples. The test condition is centrifugation at $7000 \times g$. Results show no deformation, cracking, or leakage.

Freezing Testing: According to the process inspection standards, the effect of ultra-low temperature freezing on product performance is verified. The test involves filling the tube with water, freezing it at -80°C , then thawing and checking that no cracking, damage, leakage, or deformation occurs.

Volume Testing: In line with process inspection standards, samples are weighed on a scale (tare weight) and then filled to each marked graduation line. The corresponding weight is recorded. The volume error at each graduation is controlled within ± 10 mL of the indicated volume.

The following reports are for demonstration purposes only. If you require the original reports, please contact a Nest sales representative.

3-2 Sealing Test

NEST	无锡康思达新材料科技股份有限公司	产品编号: CB-BG-001A (02)
品名: 验证报告	250mL 大容量离心管 适配性与密封性验证报告	验证日期: 2023/11/08
页次: PAGE 1 OF 4		审核日期: 2023/10/31

测试项目: 250mL 大容量离心管适配性与密封性验证报告


报告编号: CB-BG-202311031

测试开始时间: 2023-11-22

测试结束时间: 2023-11-23

编制: 张碧 日期: 2023年11月22日

审核: 李勇 日期: 2023年11月27日

批准:  日期: 2023年11月27日

江苏无锡康思达新材料工业园锡惠路530号
No.530, Xue Road, Meixun Industrial Park, Xixiu District, Wuxi, Jiangsu, China TEL: 0510-85008788

NEST	无锡康思达新材料科技股份有限公司	产品编号: CB-BG-001A (02)
品名: 验证报告	250mL 大容量离心管 适配性与密封性验证报告	验证日期: 2023/11/08
页次: PAGE 1 OF 4		审核日期: 2023/10/31

1. 实验目的
验证 250mL 大容量离心管, 通过手感适配及真空密封测试, 是否符合适配性及密封性测试要求。

2. 参照标准
大容量离心管验证方案

3. 实验样品
样品名称: 大容量离心管
规格型号: 250 mL
产品编号: 622001
样品材质: PP
包装材质: PA/PE
样品数量: 24 pcs
灭菌状态: 已灭菌
样品数量: 产成品
产品编号: 080623CE01
有效期: 3年

4. 实验设备

NO	设备名称	设备编号	计量有效期	备注
1	真空干燥箱	NS-CB-04E	2024/07/23	/


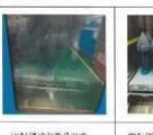

江苏无锡康思达新材料工业园锡惠路530号
No.530, Xue Road, Meixun Industrial Park, Xixiu District, Wuxi, Jiangsu, China TEL: 0510-85008788

NEST	无锡康思达新材料科技股份有限公司	产品编号: CB-BG-001A (02)
品名: 验证报告	250mL 大容量离心管 适配性与密封性验证报告	验证日期: 2023/11/08
页次: PAGE 3 OF 4		审核日期: 2023/10/31

4. 实验方法

5.1 手感适配测试: 将 250mL 大容量离心管推入 250mL 大容量离心管上, 通过手感适配及真空密封测试, 是否符合要求, 予以记录。

5.2 密封性测试: 将 250mL 大容量离心管推入加入 80% 酒精的离心管, 盖紧离心管盖, 置于真空干燥箱中, 真空干燥 30min, 取出离心管, 检查离心管盖是否密封, 予以记录。

密封测试产品状态表

6. 实验结论

6.1 适配性测试结果:

序号	判定	序号	判定	序号	判定	序号	判定
1	合格	7	合格	13	合格	19	合格
2	合格	8	合格	14	合格	20	合格
3	合格	9	合格	15	合格	21	合格
4	合格	10	合格	16	合格	22	合格
5	合格	11	合格	17	合格	23	合格
6	合格	12	合格	18	合格	24	合格

江苏无锡康思达新材料工业园锡惠路530号
No.530, Xue Road, Meixun Industrial Park, Xixiu District, Wuxi, Jiangsu, China TEL: 0510-85008788

NEST	无锡康思达新材料科技股份有限公司	产品编号: CB-BG-001A (02)
品名: 验证报告	250mL 大容量离心管 适配性与密封性验证报告	验证日期: 2023/11/08
页次: PAGE 4 OF 4		审核日期: 2023/10/31

6.2 密封性测试结果:

真空干燥: 产成品灭菌, 开瓶及密封测试

序号	判定	序号	判定	序号	判定	序号	判定
1	合格	7	合格	13	合格	19	合格
2	合格	8	合格	14	合格	20	合格
3	合格	9	合格	15	合格	21	合格
4	合格	10	合格	16	合格	22	合格
5	合格	11	合格	17	合格	23	合格
6	合格	12	合格	18	合格	24	合格

7. 实验结论
经以上实验检测, 250mL 大容量离心管与特供离心管适配, 密封性、手感适配: 250mL 大容量离心管推入 80% 酒精的离心管, 盖紧离心管盖, 置于真空干燥箱中, 真空干燥 30min, 取出离心管, 检查离心管盖是否密封, 予以记录。

8. 样品照片



报告结束

江苏无锡康思达新材料工业园锡惠路530号
No.530, Xue Road, Meixun Industrial Park, Xixiu District, Wuxi, Jiangsu, China TEL: 0510-85008788

3-3 Centrifugation Test

NEST		无锡耐思生科技股份有限公司	内部编号: CB-BG-001/A (02)
标题	验证报告	250mL 大容量离心管离心测试验证报告	日期: 2023/11/08
页码	PAGE 1 OF 4		日期: 2023/11/01

测试项目: 250mL 大容量离心管离心测试验证报告

报告编号: CB-BG-202311033

测试开始时间: 2023-11-23

测试结束时间: 2023-11-23

编制: 张君 日期: 2023年11月23日

审核: 日期: 2023年11月23日

批准: 日期: 2023年11月27日

江苏无锡东亭街道华莱坞工业园333号
No.333,Xiata Road, Mianan Industrial Park, Xiwu District, Wuxi, Jiangsu, China TEL: 0510-68005788

NEST		无锡耐思生科技股份有限公司	内部编号: CB-BG-001/A (02)
标题	验证报告	250mL 大容量离心管离心测试验证报告	日期: 2023/11/08
页码	PAGE 2 OF 4		日期: 2023/11/01

1. 实验目的
验证 250mL 大容量离心管, 是否符合离心测试要求。

2. 参照标准
大容量离心管测试方案

3. 实验样品
样品名称: 大容量离心管
规格型号: 250 mL
样品编号: 622001
样品材质: PP
包装形式: PA+PE
样品颜色: 24 pcs
包装状态: 以实图
样品来源: 产品出厂
样品批号: 080923CEB1
有效期: 3年

4. 实验设备

NO	设备名称	设备编号	计量有效期	备注
1	大容量冷冻离心机	NS-CB-016	2023/12/30	/

江苏无锡东亭街道华莱坞工业园333号
No.333,Xiata Road, Mianan Industrial Park, Xiwu District, Wuxi, Jiangsu, China TEL: 0510-68005788

NEST		无锡耐思生科技股份有限公司	内部编号: CB-BG-001/A (02)
标题	验证报告	250mL 大容量离心管离心测试验证报告	日期: 2023/11/08
页码	PAGE 3 OF 4		日期: 2023/11/01

5. 实验方法

5.1 离心测试: 将 250mL 大容量离心管管体注入 200mL 容量的样品液, 置于离心管管体上, 置于大容量冷冻离心机内, 设置 7000g 离心力/10min, 观察产品无变形、漏液、破液现象为合格。

		
客户大容量冷冻离心机	离心测试中	测试后无变形、漏液、破液现象

6. 实验结果

6.1 离心测试结果:

验收标准: 产品无变形、漏液、破液现象为合格							
序号	料号	层号	判定	层号	判定	序号	判定
1	合格	7	合格	13	合格	19	合格
2	合格	8	合格	14	合格	20	合格
3	合格	9	合格	15	合格	21	合格
4	合格	10	合格	16	合格	22	合格
5	合格	11	合格	17	合格	23	合格
6	合格	12	合格	18	合格	24	合格

7. 实验结论
根据以上实验结果, 将 250mL 大容量离心管管体加入 200mL 容量的样品液, 置于离心管管体上, 置于大容量冷冻离心机内, 设置 7000g 离心力/10min, 产品无变形、漏液、破液现象, 满足大容量离心管离心测试要求。

江苏无锡东亭街道华莱坞工业园333号
No.333,Xiata Road, Mianan Industrial Park, Xiwu District, Wuxi, Jiangsu, China TEL: 0510-68005788

NEST		无锡耐思生科技股份有限公司	内部编号: CB-BG-001/A (02)
标题	验证报告	250mL 大容量离心管离心测试验证报告	日期: 2023/11/08
页码	PAGE 4 OF 4		日期: 2023/11/01

8. 样品照片


报告结束

江苏无锡东亭街道华莱坞工业园333号
No.333,Xiata Road, Mianan Industrial Park, Xiwu District, Wuxi, Jiangsu, China TEL: 0510-68005788

3-4 Freezing Test

NES	无锡威孚生命科技股份有限公司	产品编号: CB-BG-001A01
报告编号: 500ml 大容量离心管反复冻融验证报告	报告日期: 2022/10/08	报告日期: /
Page: PAGE 1 OF 4		

测试项目: 500ml 大容量离心管反复冻融验证

报告编号: CB-BG-202211016

测试开始时间: 2022-10-28

测试结束时间: 2022-11-04

测试人: 张耀



NES	无锡威孚生命科技股份有限公司	产品编号: CB-BG-001A01
报告编号: 500ml 大容量离心管反复冻融验证报告	报告日期: 2022/10/08	报告日期: /
Page: PAGE 2 OF 4		

1. 目的

验证 500ml 大容量离心管反复冻融后, 是否开裂漏液。

2. 实验方案

将 500ml 大容量离心管共 20pcs, 加入 80% 模拟液, 放入 -80℃ 超低温冰箱 24h, 后取出室温解冻, 反复冻融三次, 观察产品是否有开裂漏液。

3. 验证使用设备



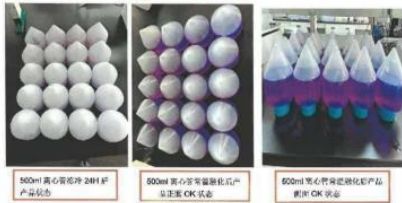
4. 验证过程

4.1 第一次冻融, 图片如下:

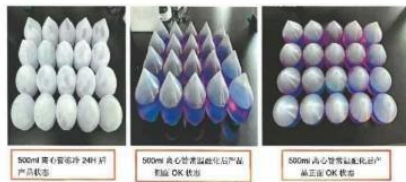


4.2 第二次冻融, 图片如下:

NES	无锡威孚生命科技股份有限公司	产品编号: CB-BG-001A01
报告编号: 500ml 大容量离心管反复冻融验证报告	报告日期: 2022/10/08	报告日期: /
Page: PAGE 3 OF 4		



4.3 第三次冻融, 图片如下:



NES	无锡威孚生命科技股份有限公司	产品编号: CB-BG-001A01
报告编号: 500ml 大容量离心管反复冻融验证报告	报告日期: 2022/10/08	报告日期: /
Page: PAGE 4 OF 4		

5. 结论

将 500ml 大容量离心管共 20pcs, 加入 80% 模拟液, 放入 -80℃ 超低温冰箱 24h, 后取出室温解冻, 反复冻融三次, 无开裂漏液现象, 结果 OK。

Annex I

Attachment-1 ISO9001

Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 1832699**

Certificate Holder:



Wuxi NEST Biotechnology Co., Ltd.
 Unified Social Credit Code: 91320213685882797G
 Registration Address: No. 530, Xida Road, Meicun Industry Zone, Xinwu District, Wuxi, 214112 Jiangsu, P. R. China
 Operation Address: same as above

Scope: Design and Development, Manufacture and Sales of Disposable Medical Laboratory Consumables (Plastic Test Tubes, Petri Dishes, etc.)

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2024-10-23 until 2027-10-22. It remains valid subject to satisfactory surveillance audits. First certification 2018. This certificate information can be searched on CNCA official website <http://www.cnca.gov.cn>

2024-09-30


 TÜV Rheinland Cert GmbH
 Am Grauen Stein · 51105 Köln

Authorized responsible office: TÜV Rheinland China Ltd., Room 301, 3F and Room 1203, 12F, Building 4, No.15, Ronghua South Road, Beijing Economic-Technological Development Area, Beijing (Yizhuang group in high-end industrial area of Beijing Pilot Free Trade Zone), 100176, P. R. China



www.tuv.com




Deutsche Akkreditierungsstelle
D-ZM-16031-01-00



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Attachment-2 ISO13485



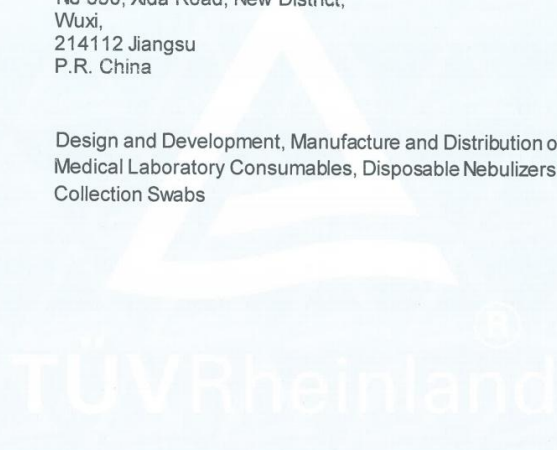
Certificate

**Quality Management System
EN ISO 13485:2016**

Registration No.: SX 2181125-1


Organization: Wuxi NEST Biotechnology Co., Ltd.
No 530, Xida Road, New District,
Wuxi,
214112 Jiangsu
P.R. China

Scope: Design and Development, Manufacture and Distribution of Disposable
Medical Laboratory Consumables, Disposable Nebulizers, Specimen
Collection Swabs




The Certification Body of TÜV Rheinland LGA Products GmbH certifies that the organization has established and applies a quality management system for medical devices. Proof has been furnished that the requirements specified in the abovementioned standard are fulfilled. The quality management system is subject to yearly surveillance

Report No.:	244414889-200
Effective date:	2022-12-30
Expiry date:	2025-04-17
Issue date:	2022-12-30



Deutsche
Akkreditierungsstelle
D-ZM-14169-01-02



Fuxiu Sheng
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

1 / 1

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Attachment-3 ISO13485, ISO11137



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



Product Service

Certificate

No. Q8 089489 0003 Rev. 04

Holder of Certificate: **Wuxi Futeng Irradiation Technology co., LTD**
 No.530, Xida Road, Meicun
 Xinwu District
 214112 Wuxi, Jiangsu
 PEOPLE'S REPUBLIC OF CHINA

Facility(ies): **Wuxi Futeng Irradiation Technology co., LTD**
 No.530, Xida Road, Meicun, Xinwu District, 214112 Wuxi,
 Jiangsu, PEOPLE'S REPUBLIC OF CHINA

See scope of certificate

Certification Mark:



Scope of Certificate: **The provision of RHODOTRON EB Irradiation Sterilization Services for Medical Devices**

Applied Standard(s): ISO 13485:2016
 (EN ISO 13485:2016/AC:2018, EN ISO 13485:2016/A11:2021)
 Medical devices - Quality management systems - Requirements for regulatory purposes

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system, which meets the requirements of the listed standard(s). All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: www.tuvsud.com/ps-cert?q=cert:Q8 089489 0003 Rev. 04

Report No.: SH2393501
Valid from: 2024-01-05
Valid until: 2027-01-04

Date, 2023-12-21

Christoph Dicks
 Head of Certification/Notified Body

Page 1 of 1
 TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



Supplement to Quality System Certificate

No. SUP 089489 0004 Rev. 03

This supplement is only valid in conjunction with the main certificate: **Q8 089489 0003 Rev. 04**

Certificate Holder: **Wuxi Futeng Irradiation Technology co., LTD**
 No.530, Xida Road, Meicun
 Xinwu District
 214112 Wuxi, Jiangsu
 PEOPLE'S REPUBLIC OF CHINA

Facility(ies): **Wuxi Futeng Irradiation Technology co., LTD**
 No.530, Xida Road, Meicun, Xinwu District, 214112 Wuxi,
 Jiangsu, PEOPLE'S REPUBLIC OF CHINA

The quality system certified as stated in the main certificate additionally fulfills the applicable requirements of

EN ISO 11137-1:2015 + A2:2019 "Sterilization of health care products - Radiation - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices (ISO 11137-1:2006/Amd 2:2018)"

Audit Report: SH2393501
Dated: 2023-10-10

The assessment was performed by auditors authorized under TÜV SÜD Product Service GmbH procedures. The audit team included an auditor authorized for sterilization.

Valid from: 2024-01-05

Christoph Dicks
 Head of Certification/Notified Body



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ CERTIFICADO ◆ CERTIFICAT



Benannt durch Designated by
 Zentralstelle der Länder
 für Gesundheitschutz
 bei Arzneimitteln und
 Medizinprodukten
 www.zfp.de
 BS-MDR-099



Product Service

EU Quality Assurance Certificate (MDR)

Pursuant to Regulation (EU) 2017/745 on Medical Devices, Annex XI Part A
 (Class I Devices in sterile condition, with measuring function or reusable surgical instruments)

No. G21 109429 0001 Rev. 00

Classification: I
Device Group: A020199 - SYRINGES, SINGLE-USE - OTHER
 A1101 - SAMPLE COLLECTION NEUTRAL SWABS
Device Properties: MDS 1005.2 - Sterilisation by irradiation

The validity of this certificate depends on conditions and/or is limited to the following: NA



Page 2 of 2
 TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123
 TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany



Attachment-5 FDA registration



**Fiscal Year 2024
FDA REGISTRATION INFORMATION**

To whom it may concern,

Establishment: WUXI NEST BIOTECHNOLOGY CO., LTD

Registered Address: No.530, Xida Road, Meicun Industrial Park, Xinwu District, Wuxi, Jiangsu, 214112, CHINA

Registration Number: 3009302820

Owner/Operator Number: 10070331

has completed the FDA Establishment Registration (as manufacturer and foreign exporter) and Device Listing with the US Food & Drug Administration, and the U.S. Agent information is:

U.S. Agent for FDA: SPICA MEDTECH CORP

Communications: 1020 LINCOLN ST Denver, CO, 80203, United States
Phone: 720 6176666 Ext ,Email: spica_us@yahoo.com

Establishments that are involved in the production and distribution of medical devices intended for commercial distribution in the United States (U.S.), including those that are imported for export only, are required to register annually with the FDA under section 510(g) of the Federal Food, Drug, and Cosmetic Act; And annual registration for each fiscal year is required for all establishments. Annual registration shall take place during the period beginning on October 1 and ending on December 31 of each fiscal year.

The FDA does not issue registration certificates to medical device facilities nor does the FDA certify information for facilities that have registered their establishments and listed their medical devices.

Pursuant to 21 CFR 807.39, "Registration of a device establishment or assignment of a registration number does not in any way denote approval of the establishment or its products."



For and on behalf of
SPICA MEDTECH CORP

Authorized Signature(s)

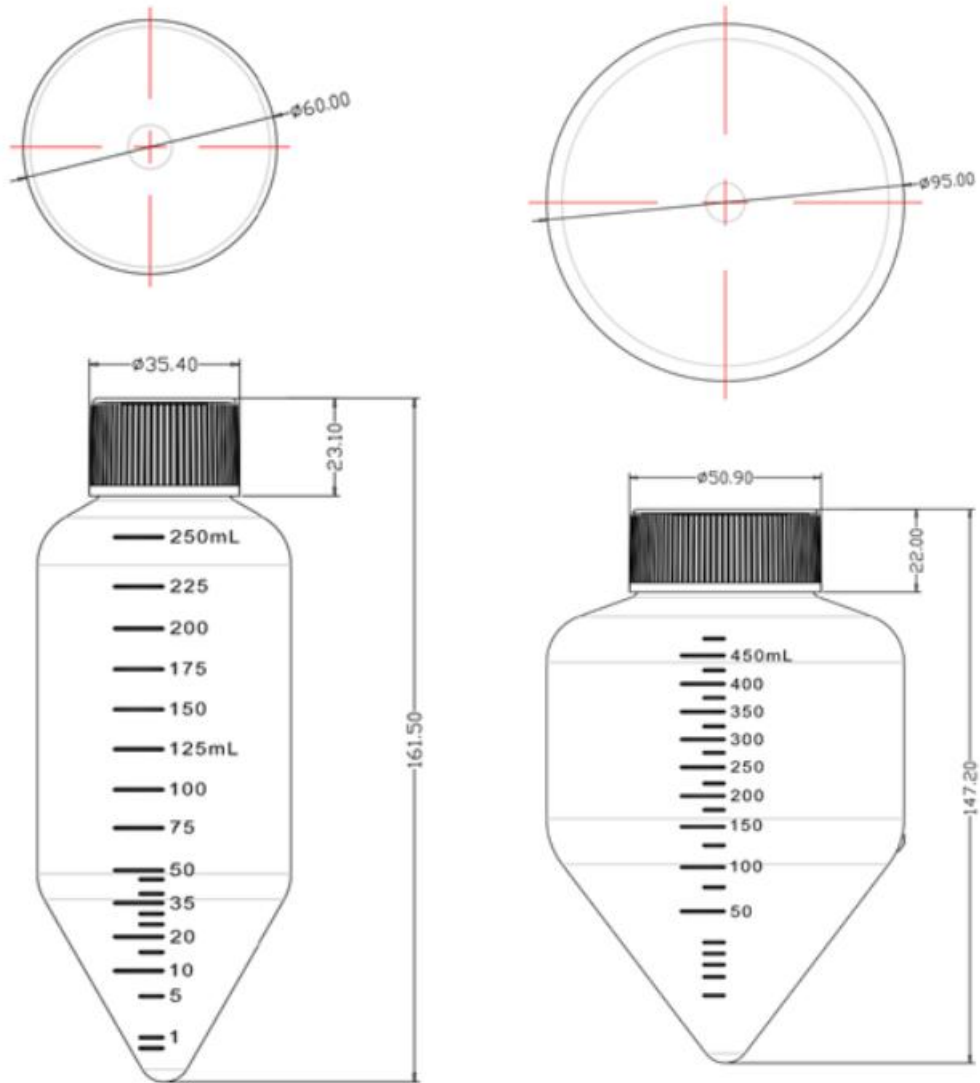
Attachment-6 Medical Device Manufacturing License



Attachment-7 Product List

Product Name	Code	Specification
NEST Large Capacity Conical Tube	622001	250ml Bagged
NEST Large Capacity Conical Tube	622002	250ml Rack Packed
NEST Large Capacity Conical Tube	623001	500ml Bagged
NEST Large Capacity Conical Tube	623002	500ml Rack Packed
NEST Closed System (Aseptic Transfer System)	Custom	Custom

Attachment-8 Product Dimensions Chart



250ml Large Capacity Conical Tube

500ml Large Capacity Conical Tube

Attachment -9 COA sample

Wuxi NEST Biotechnology Co., Ltd

Certificate of Analysis

Product Name	250 mL PP Centrifuge Tubes with Plug Seal Cap	Product No.	622001	Lot No.	041825CE01
DOM	2025-04-18	Expiration Date	2030-03		
No.	Item	Inspection items/basis			Result
1	Appearance	Black spots/impurities: ≤ 2 black spots on the tube body, black spot area ≤ 0.2mm ² , movable black spots and other impurities are not allowed to be accepted			Pass
2	Size	Conforming to the blueprint			Pass
3	Vacuum negative pressure	The pipe body and cap are qualified without leakage or cracking			Pass
4	Centrifugal force test	Centrifuge for 10min without deformation or rupture			Pass
5	Freezing test	No cracking, damage, leakage, deformation problems			Pass
6	Drop Test	No cracking, leakage, damage phenomenon			Pass
7	Volume testing	± 10ml at the scale mark is considered qualified			Pass
8	Packaging	Correct packaging materials and quantity; intact packaging			Pass
9	Sterilization	Red colored irradiation tag with Certificate of Irradiation			Pass
10	*Endotoxin Detection	≤0.05EU/ml			Pass
11	*Rnase test	No Rnase detected			Pass
12	*Dnase test	No Dnase detected			Pass
13	*Sterility testing	No microorganisms detected			Pass
Conclusion		Pass			
<p>Note: Only Pass or No pass is applicable in filling in 'Result'. Items marked with "*" are periodic testing items for representative products.</p>					
Add: No.530, Xida Road, Meicun Industrial Park, Xinwu District, Wuxi Tel: (+86) 0510-68006788 Fax: (+86) 0510-68006788 https://www.cell-nest.com		Tested by	Jiang Meiqi	Approved by	He Yun
		Date	2025-04-23	Date	2025-04-23

