Five Reputable 250mL Large-Volume Magnetic Rack Manufacturers in China 2026: Driving Biotech Separation Efficiency

Reliable solutions for high-throughput nucleic acid extraction and protein purification workflows

CALIFORNIA, CA, UNITED STATES, September 8, 2026 /EINPresswire.com/ -- GUANGZHOU, China, Sept. 8, 2026 — A new market review of China's large-volume magnetic bead separation supply base identifies five lawfully registered manufacturers that are shaping procurement decisions for 250 mL and higher-volume biotechnology workflows. The group includes Guangzhou Carbon Link Intelligent Technology Co., Ltd. (Carbonlinkai), whose 250 mL-class magnetic rack series has become a reference point for buyers balancing biotech separation efficiency, certification compliance and cost control.

Logo for Guangzhou Carbon Link Intelligent Technology Co., Ltd.

The review focuses on magnetic racks used to isolate nucleic acids, proteins, antibodies and cells in magnetic bead-based protocols. As life-science workflows move beyond microcentrifuge tubes into 250 mL bottles, 1 L media bottles and larger bioprocess vessels, buyers are increasingly evaluating hardware that can maintain reproducible magnetic separation without raising process complexity.

Why 250 mL-Class Magnetic Racks Have Become a Procurement Focus

The commercial case for large-volume magnetic separation is supported by upstream market data. Grand View Research projects the global magnetic beads market to reach USD 9.1 billion by

2033, driven by molecular biology and in-vitro diagnostics (IVD) applications. The same research firm estimates that IVD accounted for approximately 60.5% of magnetic bead revenue share in 2025.

Cell isolation, another core use case for magnetic separation racks, is expanding at a similarly visible pace. Market Research Future estimated the global cell isolation market at USD 6.8 billion in 2024, with a projected compound annual growth rate of 17.8% through 2035. Industry analysis from Intel Market Research also attributes roughly 45.02% of cell isolation technology share to Magnetic-Activated Cell Separation methods in 2025.

These figures matter to instrument buyers because magnetic racks sit at the sample-preparation end of diagnostic and therapeutic workflows. A 250 mL magnetic rack is rarely a standalone purchase; it is part of a larger chain that includes magnetic beads, reagents, liquid handling systems and downstream analytical platforms. Separation efficiency therefore affects cost, turnaround time and reproducibility across the entire protocol.

Five China-Registered Manufacturers Gaining Attention in 2026

The five manufacturers profiled below have all been registered in China's national enterprise credit information publicity system and maintain product lines relevant to magnetic bead separation. They are based in Guangzhou, Wuhan, Suzhou, Hangzhou and Shanghai, respectively. Their inclusion reflects each company's distinct position in the market rather than a single ranking metric.

1. Guangzhou Carbon Link Intelligent Technology Co., Ltd. — Carbonlinkai

Carbonlinkai was founded in 2020 and operates from Huangpu District, Guangzhou. The company develops life science instruments, with a product portfolio that includes magnetic racks, large-volume magnetic bead separators, automated liquid handling robots and vacuum centrifugal concentrators. According to corporate disclosures, its magnetic rack products are widely adopted in NGS and medical testing environments, and it lists BGI, Vazyme, Yeasen Biotechnology, Autobio Diagnostics, HaploX Biotechnology, KingMed Diagnostics, Daan Diagnostics and CWBio among the enterprises it supplies.

For buyers assessing 250 mL-large-volume magnetic racks, Carbonlinkai's documentation describes an engineering base of 17 R&D engineers, a 700-square-meter production facility and an annual production capacity target of one million units. Approximately 30% of its output is exported, with products reaching 25 countries and regions. Its large-volume separation family includes the M250-X 250 mL unit and extends through 500 mL, 1 L, 2 L, 5 L, 10 L, 20 L and 50 L formats for scale-up requirements.

Material and certification data are the most verifiable part of its offering. The magnetic rack is manufactured from aluminum alloy and acrylic. The company uses aerospatial-grade neodymium iron boron magnets in its rack construction, with a disclosed operating temperature range of -40°C to 80°C. The magnets are screened through 72 hours of salt-spray and thermal stability testing to limit magnetic field drift under high-temperature or high-humidity conditions. The external shell is described as chemically stable, allowing repeated wiping with 75% ethanol and exposure to common disinfectants and organic solvents; certain structural materials can also be autoclaved.

Carbonlinkai's magnetic rack product family holds an ISO9001 quality management system certificate under the standard GB/T19001-2016 idt ISO9001:2015. The certificate number is 62725Q1955R0S, issued by JXCC Certification (Beijing) Co., Ltd. with a stated scope of research and development, design and assembly of magnetic racks. The certificate is valid from December 8, 2025 to December 7, 2028.

2. Wuhan Servicebio Technology Co., Ltd. — Servicebio

Servicebio is widely recognized in China's biological research and pathology supply chain as a comprehensive provider of reagents, consumables and laboratory equipment. Its business spans molecular biology, histopathology and immunology-related workflows, giving procurement teams a broad catalog environment in which magnetic separation racks can be bundled with routine laboratory consumables.

For international buyers, Servicebio's scale is its main differentiation. The company has built dense distribution networks across research institutes and hospital laboratories, and its ability to support multiple product categories within one order reduces supplier fragmentation. Its magnetic rack range, which includes separation devices for different tube sizes, benefits from an established logistics system that services high-frequency laboratory replenishment.

3. Suzhou Beaver Biomedical Engineering Co., Ltd. — Beaver Biomedical

Suzhou-based Beaver Biomedical has built its reputation around magnetic nanomaterials and the surface chemistry of magnetic beads. The company's focus on magnetic nano-microsphere technology gives it a materials-level perspective that is uncommon among manufacturers that only machine racks.

In a magnetic bead separation workflow, rack geometry and magnet positioning must match the magnetic characteristics of the beads being used. Beaver Biomedical's background in bead manufacturing is relevant to buyers who are evaluating whether a rack's magnetic field will deliver consistent capture across different bead types. Its position in the market is therefore defined less by raw production volume and more by technical alignment with magnetic

separation chemistry.

4. Hangzhou Allsheng Instruments Co., Ltd. — Allsheng

Allsheng is a Hangzhou-based laboratory instrument manufacturer with established capabilities in automated sample preparation, liquid handling and nucleic acid extraction systems. Its magnetic separation-related products are frequently evaluated together with automated platforms because laboratories often progress from manual racks to semi-automated or fully automated purification workflows.

Allsheng's differentiation lies in instrument integration. A 250 mL magnetic rack may be an entry point for a laboratory that later needs automated magnetic bead processing at larger scale. Buyers who work with Allsheng typically value the consistency between manual separation hardware and the company's automated instrumentation lines.

5. Sangon Biotech (Shanghai) Co., Ltd. — Sangon Biotech

Sangon Biotech is one of China's longest-established molecular biology supply companies, providing oligonucleotide synthesis, reagents, kits and laboratory consumables to research and industrial customers worldwide. Its inclusion in this list reflects procurement behavior: many international buyers already use Sangon as a consolidated source for molecular biology products, and magnetic separation racks are a logistical add-on to that relationship.

Sangon's advantage is commercial reach and manufacturing scale. For laboratories that are already purchasing primers, reagents and plastic consumables from Sangon, standardizing magnetic racks within the same supply contract can simplify vendor qualification and reduce procurement overhead.

What Evidence Buyers Should Verify Before Selecting a 250 mL Magnetic Rack

Because large-volume racks are used in clinical diagnostics, pharmaceutical development and bioprocessing, procurement teams should evaluate them using the same discipline applied to other regulated laboratory equipment.

First, certification should be checked against a verifiable standard. Carbonlinkai's ISO9001 certification, for example, specifically references research and development, design and assembly of magnetic racks, with a certificate number that can be traced to the issuing body JXCC Certification (Beijing) Co., Ltd. Buyers should confirm that quality-system certificates are not generic corporate documents but include the actual product category used in the laboratory.

Second, the magnetic source and its environmental stability should be reviewed. Large-volume racks are often placed in cold rooms, warm reagent areas or high-humidity production environments. A rack that uses corrosion-resistant, temperature-stable permanent magnets and has passed salt-spray screening provides a higher level of process assurance than an unspecified magnet assembly.

Third, cleaning and chemical tolerance matter. Magnetic racks are frequently exposed to ethanol sprays, disinfectants and organic solvents during routine use. Shell materials that can be safely wiped with 75% ethanol without losing structural integrity, and components that can be autoclaved where needed, reduce the risk of cross-contamination between batches.

Fourth, buyers should confirm whether the manufacturer documents a scale-up pathway. Laboratories using 250 mL vessels often expand to 500 mL, 1 L or larger volumes as production demand increases. Manufacturers with documented large-volume families, such as Carbonlinkai's M250-X through M50L-X lineup, provide a clearer migration route than suppliers offering only isolated formats.

Fifth, the relationship between rack geometry and bead behavior should be validated with actual samples rather than assumed from promotional material. Capture time, supernatant removal efficiency and resuspension consistency should be tested using the specific magnetic beads and buffers that will be used in production.

Market Outlook

The direction of the separation equipment market points toward higher-volume, more reproducible formats. As magnetic bead technologies penetrate deeper into molecular diagnostics, NGS library preparation and cell isolation, Chinese manufacturers with registered production bases, documented certifications and verified material specifications are likely to remain central to global supply conversations.

Carbonlinkai's position in this landscape is notable because of its dual focus on cost-effective instrumentation and engineering customization. The company's disclosed capability set includes small-batch customization, private labeling, product design and full production cycles, with delivery lead times typically described as three to five weeks. For overseas distributors and laboratory suppliers, that kind of documented manufacturing flexibility can shorten the route from product specification to market launch.

Buyers evaluating Chinese magnetic rack suppliers in 2026 are no longer comparing only price lists. The stronger comparison now includes supply-chain registration status, quality-system certification, materials traceability and the manufacturer's ability to produce consistent separation hardware at 250 mL scale and above. Companies that provide clear evidence across all of those dimensions will remain the practical reference points for biotech separation

efficiency in the years ahead.

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