

Magnetic Beads Market Report by Type (Cells, Pathogenic Microorganisms, Nucleic Acids, Peptide, Protein, and Others), Magnetic Core (Superparamagnetic, Ferrimagnetic), Size (Less than 5 μ m, 5-20 μ m, 20-40 μ m, 40 μ m and Above), Application (Next-Generation Sequencing, Biomolecules Separation and Purification, Molecular and Immunodiagnostics, and Others), and Region 2024-2032

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Abstracts

The global magnetic beads market size reached US\$ 2.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 6.0 Billion by 2032, exhibiting a growth rate (CAGR) of 10.83% during 2024-2032.

Magnetic beads are tiny particles of iron oxides used in molecular biology for easy and effective isolation of biomolecules. They provide a simple and reliable method of purifying plasmids, genomic and mitochondrial deoxyribonucleic acid (DNA), ribonucleic acid (RNA), and proteins. They are widely utilized in next-generation sequencing (NGS), polymerase chain reaction (PCR), quantitative PCR (qPCR), droplet digital PCR (ddPCR) and other amplification and genotyping applications. They can also find applications as carriers of antigens, antibodies, and catalyzers for tissue-specific targeting and in magnetic resonance imaging (MRI, magnetic particle imaging, and nanomaterial-based catalysis worldwide.

Magnetic Beads Market Trends:

Molecular biology and nanotechnology-based analytical methods are nowadays employed as diagnostic tools for the rapid screening of coronavirus disease (COVID-19) with high accuracy and precision. This represents one of the major factors driving the need for magnetic beads across the globe. Apart from this, the rising preference for in-vitro diagnostic testing on account of their versatility and ability to provide quick results is impelling the market growth. Moreover, a significant increase in the human lifespan and aging of the baby boomer generation is catalyzing the demand for medicines and other studies targeting chronic diseases. This, in turn, is positively influencing the demand for magnetic beads to facilitate disease prevention and treatment methods and the generation of new protein products. Besides this, researchers are studying the efficacy of magnetic beads containing graphite carbon on removing color and organic substances in livestock wastewater. Such innovations are creating a positive influence on the usage of magnetic beads in the agriculture sector. Furthermore, rising investments in genetic and microbiology research activities are projected to provide a thrust to the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global magnetic beads market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type, magnetic core, size and application.

Breakup by Type:

- Cells
- Pathogenic Microorganisms
- Nucleic Acids
- Peptide
- Protein
- Others

Breakup by Magnetic Core:

- Superparamagnetic
- Ferrimagnetic

Breakup by Size:

- Less than 5 μ m

5-20 ?m
20-40 ?m
40 ?m and Above

Breakup by Application:

Next-Generation Sequencing
Biomolecules Separation and Purification
Molecular and Immunodiagnostics
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Advanced BioChemicals LLC, Bio-Rad Laboratories Inc., Calbiotech Inc, MagBio Genomics Inc., Merck KGaA, New England Biolabs, Promega Corporation, Qiagen N.V., Thermo Fisher Scientific Inc., Vazyme Biotech Co. Ltd., and Xiamen Zeesan Biotech Co. Ltd.

Key Questions Answered in This Report

1. What was the size of the global magnetic beads market in 2023?
2. What is the expected growth rate of the global magnetic beads market during 2024-2032?
3. What are the key factors driving the global magnetic beads market?
4. What has been the impact of COVID-19 on the global magnetic beads market?
5. What is the breakup of the global magnetic beads market based on the type?
6. What is the breakup of the global magnetic beads market based on the magnetic core?
7. What is the breakup of the global magnetic beads market based on the size?
8. What is the breakup of the global magnetic beads market based on the application?
9. What are the key regions in the global magnetic beads market?
10. Who are the key players/companies in the global magnetic beads market?

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