

Global Oligonucleotide Purification Consumables Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Oligonucleotide Purification Consumables market size was valued at US\$ 473 million in 2025 and is forecast to a readjusted size of US\$ 1137 million by 2032 with a CAGR of 13.3% during review period.

Oligonucleotide purification consumables are used for post-synthesis purification, desalting, concentration, and sample cleanup of DNA, RNA, antisense oligonucleotides, siRNA, probes, and aptamers. Common formats include reversed-phase purification mini-columns, desalting columns and plates, preparative liquid chromatography columns, ion exchange or hydrophobic resins, solid-phase extraction plates, and spin columns. Their function is to remove truncated failure sequences, salts, protecting group by-products, coupling by-products, proteins and lipid matrix contaminants, as well as solvent residues, thereby improving purity, recovery yield, and downstream analytical or formulation compatibility. The overall gross margin is approximately 60%.

Demand for oligonucleotide purification consumables is gradually shifting from research and small-scale applications toward clinical sample preparation and commercial-scale manufacturing. The development of antisense oligonucleotides, small interfering RNA, aptamers, mRNA key raw materials, and gene therapy-related nucleic acid fragments has increased the requirement for high-loading capacity, high-resolution separation, low residual impurities, and scalable purification materials. As nucleic acid drug pipelines expand, purification steps play an increasingly important role in impurity removal, salt exchange, truncated sequence control, and batch consistency. From a product structure perspective, ion exchange, reversed-phase, hydrophilic interaction, and size exclusion chromatography resins and prepacked columns remain the core consumables for high-

purity oligonucleotide production. Ultrafiltration membranes, desalting columns, solid-phase extraction consumables, and single-use flow path components support concentration, buffer exchange, and process integration. Customers typically focus on binding capacity, separation efficiency, chemical compatibility, cleanability, batch-to-batch consistency, and regulatory documentation support, and manufacturers increasingly prefer platform-based consumables that can be used from R&D through scale-up. In terms of competition, international suppliers still hold advantages in high-end resins, process validation, and global supply stability, while domestic manufacturers mainly enter through research-grade consumables, prepacked columns, localized delivery, and customized services. Future opportunities lie not only in single-product substitution but in providing integrated purification consumable solutions across nucleic acid drug workflows, including capture, polishing, desalting and concentration, and single-use process connectivity systems. Suppliers with strong batch consistency, application data, and regulatory support capabilities are more likely to penetrate pilot and commercial manufacturing customers.

This report is a detailed and comprehensive analysis for global Oligonucleotide Purification Consumables market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Oligonucleotide Purification Consumables market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oligonucleotide Purification Consumables market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oligonucleotide Purification Consumables market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Oligonucleotide Purification Consumables market shares of main players,

shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Oligonucleotide Purification Consumables

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Oligonucleotide Purification Consumables market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Waters, Agilent, Thermo Fisher Scientific, Glen Research, DuPont, Bio-Rad, Tosoh Bioscience, YMC, Phenomenex, Biotage, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Oligonucleotide Purification Consumables market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Purification Cartridges

Desalting Columns and Plates

Preparative HPLC Columns

Chromatography Resins

SPE Plates and Cartridges

Spin Columns

Market segment by Separation Mode

DMT-On Hydrophobic Capture

Ion-Pair Reversed-Phase

Anion Exchange

Hydrophobic Interaction

Size Exclusion and Desalting

Mixed-Mode WAX SPE

Market segment by Target Oligonucleotide

DNA Oligonucleotides

RNA Oligonucleotides

Antisense Oligonucleotides

siRNA and Duplex Oligos

Aptamers and Probes

Long Oligos and sgRNA

Market segment by Compatible Platform

HPLC Systems

FPLC and Bioprocess Columns

Vacuum Manifolds

Centrifuges

Liquid Handling Workstations

LC-MS Sample Prep Workflows

Market segment by Application

Research Oligo Cleanup

Diagnostic Primer and Probe Production

Therapeutic Oligo Process Development

GMP Oligo Manufacturing

Bioanalytical Sample Preparation

Other

Major players covered

Waters

Agilent

Thermo Fisher Scientific

Glen Research

DuPont

Bio-Rad

Tosoh Bioscience

YMC

Phenomenex

Biotage

Biocomma

Bio-Works

ADS Biotec

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Oligonucleotide Purification Consumables product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Oligonucleotide Purification Consumables, with price, sales quantity, revenue, and global market share of

Oligonucleotide Purification Consumables from 2021 to 2026.

Chapter 3, the Oligonucleotide Purification Consumables competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Oligonucleotide Purification Consumables breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Oligonucleotide Purification Consumables market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Oligonucleotide Purification Consumables.

Chapter 14 and 15, to describe Oligonucleotide Purification Consumables sales channel, distributors, customers, research findings and conclusion.

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