

Global NTA-IDA Chelating Ligands Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G416ACA0FD5CEN.html>

Date: July 2026

Pages: 122

Price: US\$ 3,480.00 (Single User License)

ID: G416ACA0FD5CEN

Abstracts

According to our (Global Info Research) latest study, the global NTA-IDA Chelating Ligands market size was valued at US\$ 329 million in 2025 and is forecast to a readjusted size of US\$ 469 million by 2032 with a CAGR of 5.2% during review period.

NTA/IDA chelating ligands are functional groups based on nitrilotriacetic acid (NTA) or iminodiacetic acid (IDA), which act as metal-chelating moieties for immobilized metal affinity chromatography (IMAC). These ligands are typically covalently attached via spacer arms onto solid supports such as agarose, polymer microspheres, magnetic beads, silica, membranes, or monolithic matrices. After immobilization, they are charged with metal ions such as Ni²⁺, Co²⁺, Cu²⁺, Zn²⁺, Fe²⁺, or Ga³⁺ to create affinity media used for purification systems. Applications include His-tagged recombinant protein capture, metal-binding protein separation, phosphopeptide enrichment, and metal ion removal. Key differences among products lie in coordination geometry, metal leakage, resistance to reducing agents, binding capacity, and flow compatibility. The estimated gross margin is approximately 60%.

The demand for NTA/IDA ligands is primarily driven by the long-term and stable use of His-tag recombinant protein purification systems. Although the overall market scale is relatively moderate, it benefits from consistent repeat demand and expands alongside recombinant proteins, enzymes, antigens, and cell expression systems. These ligands are used both in research-grade consumables and increasingly in pilot-scale and process-development biomanufacturing workflows.

Product evolution is focused on reducing metal ion leakage, increasing binding capacity, improving flow rates, and expanding chemical compatibility. NTA-based ligands

generally provide stronger metal stability and better tolerance to reducing conditions, making them suitable for higher-purity and more demanding purification processes. IDA ligands, with lower cost and more open coordination sites, remain widely used in standard His-tag purification and broader metal affinity separations.

Competitive dynamics are dominated by chromatography media manufacturers and life science reagent suppliers. Customers prioritize batch consistency, regulatory and validation documentation, and compatibility with automated chromatography systems and FPLC platforms. Domestic suppliers are gradually expanding from laboratory-grade consumables into process-development-grade media, but high-end adoption still requires long-term application data accumulation and strong technical support capabilities.

This report is a detailed and comprehensive analysis for global NTA-IDA Chelating Ligands 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 NTA-IDA Chelating Ligands market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global NTA-IDA Chelating Ligands market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global NTA-IDA Chelating Ligands market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global NTA-IDA Chelating Ligands market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 NTA-IDA Chelating Ligands

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 NTA-IDA Chelating Ligands 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 Cytiva, Thermo Fisher Scientific, Qiagen, Merck, Bio-Rad, Bio-Works, Macherey-Nagel, Cube Biotech, G-Biosciences, GenScript, etc.

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

Market Segmentation

NTA-IDA Chelating Ligands 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

NTA Chelating Ligand

IDA Chelating Ligand

NTA and IDA Screening Set

Other IMAC Chelating Ligand

Market segment by Support Matrix

Agarose Matrix

Silica Matrix

Methacrylate Polymer Matrix

Polystyrene-Divinylbenzene Matrix

Magnetic Composite Matrix

Membrane or Monolith Matrix

Other Matrix

Market segment by Metal Charge State

Uncharged Chelating Ligand

Nickel-Charged

Cobalt-Charged

Copper-Charged

Zinc-Charged

Iron or Gallium-Charged

Other Metal-Charged

Market segment by Operating Format

Bulk Resin

Prepacked Column

Magnetic Bead

Spin Column

Multiwell Plate

Process-Scale Resin

Other Format

Market segment by Application

His-Tagged Protein Purification

Process Development and Scale-Up

Metal-Binding Protein Enrichment

Phosphopeptide Enrichment

Metal Ion Removal

Other Research Use

Major players covered

Cytiva

Thermo Fisher Scientific

Qiagen

Merck

Bio-Rad

Bio-Works

Macherey-Nagel

Cube Biotech

G-Biosciences

GenScript

BestChrom

NanoMicro

Duoning Biotech

Smart-Lifesciences

Resindion

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 NTA-IDA Chelating Ligands product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of NTA-IDA Chelating Ligands, with

price, sales quantity, revenue, and global market share of NTA-IDA Chelating Ligands from 2021 to 2026.

Chapter 3, the NTA-IDA Chelating Ligands competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the NTA-IDA Chelating Ligands 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 NTA-IDA Chelating Ligands 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 NTA-IDA Chelating Ligands.

Chapter 14 and 15, to describe NTA-IDA Chelating Ligands sales channel, distributors, customers, research findings and conclusion.

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