

Global GMP Grade High Salt-Active Universal Nuclease Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GC72E1A3D826EN.html>

Date: July 2026

Pages: 103

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

ID: GC72E1A3D826EN

Abstracts

According to our (Global Info Research) latest study, the global GMP Grade High Salt-Active Universal Nuclease market size was valued at US\$ 10.53 million in 2025 and is forecast to a readjusted size of US\$ 56.55 million by 2032 with a CAGR of 26.7% during review period.

In 2025, global GMP Grade High Salt-Active Universal Nuclease production reached approximately 12.42 K MU, with an average global market price of around 824 USD per MU.

GMP Grade High Salt-Active Universal Nuclease refers to a GMP-grade, recombinant, non-specific endonuclease designed for efficient degradation of a broad range of nucleic acids under high-salt bioprocessing conditions. Compared with conventional nucleases, this type of enzyme retains strong activity in elevated-salt process streams, making it suitable for host-cell nucleic acid removal, lysate viscosity reduction, chromatin degradation and downstream purification support in viral vector, vaccine, recombinant protein and other biologics manufacturing.

The core value of GMP Grade High Salt-Active Universal Nuclease lies in its ability to maintain strong nucleic acid degradation performance under medium- to high-salt bioprocessing conditions, addressing the limitation of conventional nucleases whose activity may decline in high-salt environments. In the manufacturing of AAV, lentiviral vectors, adenoviral vectors, vaccines and recombinant proteins, residual host-cell DNA/RNA, high lysate viscosity and heavy downstream purification burden remain major process challenges. By directly degrading residual nucleic acids in salt-containing process streams, SAN can reduce the need for additional desalting, buffer exchange or

process redesign, helping manufacturers improve purification efficiency, simplify workflows and strengthen consistency in GMP production.

As cell and gene therapy, viral vector manufacturing, vaccines and next-generation biologics move further toward scale-up, regulatory compliance and commercial production, demand is increasing for GMP-grade process enzymes with robust quality systems, batch-to-batch consistency, regulatory documentation and broad process compatibility. Compared with research-grade nucleases, GMP Grade SAN is not merely an enzyme reagent, but a critical biomanufacturing tool that supports process efficiency, impurity control and regulatory readiness. Looking ahead, as high-salt purification strategies become more widely adopted in AAV and related biologics workflows, and as CDMOs and biopharma companies place greater emphasis on residual nucleic acid control, GMP Grade Salt-Active Nuclease is well positioned to become an important enabling material in advanced biomanufacturing.

The upstream raw materials for GMP Grade High Salt-Active Universal Nuclease mainly include recombinant expression systems, microbial fermentation media, GMP-grade buffer salts and stabilizers, chromatography packing materials, filtration/ultrafiltration consumables, quality control reagents, and pharmaceutical packaging materials. Representative suppliers include Thermo Fisher Scientific, Merck KGaA/MilliporeSigma, Avantor, Cytiva, Sartorius, Repligen, Kerry, BD Difco, Organotechnie/Solabia, SCHOTT Pharma, Stevanato Group, and West Pharmaceutical. Downstream applications are primarily in recombinant proteins, viral vaccines, and viral vectors. Typical customers include Thermo Fisher, Lonza, Oxford Biomedica, Sanofi, GSK, Merck, Pfizer, AstraZeneca, SK Bioscience, Sinopharm Group, and Sinovac Biotech, among others.

GMP Grade High Salt-Active Universal Nuclease varies greatly depending on product type, process path, and degree of automation, with industry gross margins typically ranging from 70% to 80%.

This report is a detailed and comprehensive analysis for global GMP Grade High Salt-Active Universal Nuclease market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Target Impurity 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 GMP Grade High Salt-Active Universal Nuclease market size and forecasts, in consumption value (\$ Million), sales quantity (K MU), and average selling prices (USD/ MU), 2021-2032

Global GMP Grade High Salt-Active Universal Nuclease market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K MU), and average selling prices (USD/ MU), 2021-2032

Global GMP Grade High Salt-Active Universal Nuclease market size and forecasts, by Target Impurity and by Application, in consumption value (\$ Million), sales quantity (K MU), and average selling prices (USD/ MU), 2021-2032

Global GMP Grade High Salt-Active Universal Nuclease market shares of main players, shipments in revenue (\$ Million), sales quantity (K MU), and ASP (USD/ MU), 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 GMP Grade High Salt-Active Universal Nuclease

- 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 GMP Grade High Salt-Active Universal Nuclease 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 ArcticZymes Technologies, New England Biolabs, QIAGEN N.V., Merck KGaA, c-LEcta GmbH, Sino Biological, ACRO Biosystems, Yeasen Biotechnology (Shanghai) Co., Ltd., TransGen Biotech, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

GMP Grade High Salt-Active Universal Nuclease market is split by Target Impurity and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Target Impurity, 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 Target Impurity

Host DNA Clearance Nuclease

Host RNA Clearance Nuclease

Others

Market segment by Form

Liquid

Lyophilized Powder

Market segment by Application

Recombinant Protein

Viral Vaccine

Viral Vector

Others

Major players covered

ArcticZymes Technologies

New England Biolabs

QIAGEN N.V.

Merck KGaA

c-LEcta GmbH

Sino Biological

ACRO Biosystems

Yeasen Biotechnology (Shanghai) Co., Ltd.

TransGen Biotech

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 GMP Grade High Salt-Active Universal Nuclease product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GMP Grade High Salt-Active

Universal Nuclease, with price, sales quantity, revenue, and global market share of GMP Grade High Salt-Active Universal Nuclease from 2021 to 2026.

Chapter 3, the GMP Grade High Salt-Active Universal Nuclease competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GMP Grade High Salt-Active Universal Nuclease 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 Target Impurity and by Application, with sales market share and growth rate by Target Impurity, 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 GMP Grade High Salt-Active Universal Nuclease market forecast, by regions, by Target Impurity, 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 GMP Grade High Salt-Active Universal Nuclease.

Chapter 14 and 15, to describe GMP Grade High Salt-Active Universal Nuclease sales channel, distributors, customers, research findings and conclusion.

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