

Global GMP Grade Salt-Active Nuclease (SAN) Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global GMP Grade Salt-Active Nuclease (SAN) market size was valued at US\$ 19.28 million in 2025 and is forecast to a readjusted size of US\$ 95.44 million by 2032 with a CAGR of 22.6% during review period.

In 2025, global GMP Grade Salt-Active Nuclease (SAN) production reached approximately 18.78 K MU, with an average global market price of around 998 USD per MU.

GMP Grade Salt-Active Nuclease (SAN) refers to a GMP-grade, non-specific endonuclease enzyme designed or engineered to degrade residual host-cell nucleic acids, including single-stranded and double-stranded DNA and RNA, under medium- to high-salt bioprocessing conditions. It is mainly used in the manufacturing and purification of viral vectors, vaccines, recombinant proteins and other biologics, where conventional nucleases may lose efficiency under elevated salt concentrations. GMP-grade SAN products are manufactured and quality-controlled under GMP-oriented systems, making them suitable for process development and commercial biomanufacturing workflows where residual DNA/RNA clearance, impurity reduction and regulatory documentation are required.

The core value of GMP Grade Salt-Active Nuclease (SAN) 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 Salt-Active Nuclease (SAN) 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 Salt-Active Nuclease (SAN) 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 Salt-Active Nuclease (SAN) market. Both quantitative and qualitative analyses are presented by company, 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 GMP Grade Salt-Active Nuclease (SAN) market size and forecasts, in consumption value (\$ Million), 2021-2032

Global GMP Grade Salt-Active Nuclease (SAN) market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global GMP Grade Salt-Active Nuclease (SAN) market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global GMP Grade Salt-Active Nuclease (SAN) market shares of main players, in revenue (\$ Million), 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 Salt-Active Nuclease (SAN)

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 Salt-Active Nuclease (SAN) market based on the following parameters - company overview, revenue, 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 Salt-Active Nuclease (SAN) 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

200 mM NaCl Below

200-400 mM NaCl

400 mM NaCl Above

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

Market segment by players, this report covers

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 regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe GMP Grade Salt-Active Nuclease (SAN) product scope,

market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of GMP Grade Salt-Active Nuclease (SAN), with revenue, gross margin, and global market share of GMP Grade Salt-Active Nuclease (SAN) from 2021 to 2026.

Chapter 3, the GMP Grade Salt-Active Nuclease (SAN) competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and GMP Grade Salt-Active Nuclease (SAN) market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of GMP Grade Salt-Active Nuclease (SAN).

Chapter 13, to describe GMP Grade Salt-Active Nuclease (SAN) research findings and conclusion.

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