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Global GMP Grade High Salt-Active Nuclease (SAN) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GMP Grade High Salt-Active Nuclease (SAN) market size is expected to reach $ 88.53 million by 2032, rising at a market growth of 23.2% CAGR during the forecast period (2026-2032).

In 2025, globalGMP Grade High Salt-Active Nuclease (SAN) production reached approximately 16.9 K MU, with an average global market price of around 998 USD per MU.

GMP Grade High Salt-Active Nuclease (SAN) refers to a GMP-grade, recombinant, non-specific endonuclease that is designed to efficiently degrade residual nucleic acids, including single-stranded and double-stranded DNA and RNA, under high-salt bioprocessing conditions. Unlike conventional nucleases that may show reduced activity in elevated salt environments, high salt-active SAN maintains strong enzymatic activity in salt-containing process streams and is mainly used 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 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

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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 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 High 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 studies the global GMP Grade High Salt-Active Nuclease (SAN) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GMP Grade High Salt-Active Nuclease (SAN) and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of GMP Grade High Salt-Active Nuclease (SAN) that contribute to its increasing demand across many markets.

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Highlights and key features of the study
Global GMP Grade High Salt-Active Nuclease (SAN) total production and demand, 2021-2032, (K MU)
Global GMP Grade High Salt-Active Nuclease (SAN) total production value, 2021-2032, (USD Million)
Global GMP Grade High Salt-Active Nuclease (SAN) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MU), (based on production site)
Global GMP Grade High Salt-Active Nuclease (SAN) consumption by region & country, CAGR, 2021-2032 & (K MU)
U.S. VS China: GMP Grade High Salt-Active Nuclease (SAN) domestic production, consumption, key domestic manufacturers and share
Global GMP Grade High Salt-Active Nuclease (SAN) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MU)
Global GMP Grade High Salt-Active Nuclease (SAN) production by Target Impurity, production, value, CAGR, 2021-2032, (USD Million) & (K MU)
Global GMP Grade High Salt-Active Nuclease (SAN) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MU)

This report profiles key players in the global GMP Grade High Salt-Active Nuclease (SAN) market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World GMP Grade High Salt-Active Nuclease (SAN) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K MU) and average price (USD/ MU) by manufacturer, by Target Impurity, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and

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2027-2032 as the forecast year.

Global GMP Grade High Salt-Active Nuclease (SAN) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GMP Grade High Salt-Active Nuclease (SAN) Market, Segmentation by Target Impurity:

Host DNA Clearance Nuclease

Host RNA Clearance Nuclease

Others

Global GMP Grade High Salt-Active Nuclease (SAN) Market, Segmentation by Form:

Liquid

Lyophilized Powder

Global GMP Grade High Salt-Active Nuclease (SAN) Market, Segmentation by

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Application:

Recombinant Protein

Viral Vaccine

Viral Vector

Others

Companies Profiled:

ArcticZymes Technologies

New England Biolabs

QIAGEN N.V.

Merck KGaA

c-LEcta GmbH

Sino Biological

ACRO Biosystems

Yeasen Biotechnology (Shanghai) Co., Ltd.

TransGen Biotech

Key Questions Answered:
1. How big is the global GMP Grade High Salt-Active Nuclease (SAN) market?
2. What is the demand of the global GMP Grade High Salt-Active Nuclease (SAN) market?
3. What is the year over year growth of the global GMP Grade High Salt-Active Nuclease (SAN) market?
4. What is the production and production value of the global GMP Grade High Salt-

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Active Nuclease (SAN) market?
5. Who are the key producers in the global GMP Grade High Salt-Active Nuclease (SAN) market?
6. What are the growth factors driving the market demand?

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