

Vitamin K3 Market Size, Share & Growth Report, H2-2026: Industry Outlook By Product Form, By Grade, By Application, By Animal Type, By Distribution Channel, Companies and Countries to 2032

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Abstracts

The global Vitamin K3 Market size is forecast to grow at a CAGR of 5.66% between 2026 and 2032. This Vitamin K3 report provides a comprehensive analysis across By Product Form (Menadione Sodium Bisulfite, Menadione Nicotinamide Bisulfite, Menadione Dimethylpyrimidinol Bisulfite, Pure Menadione), By Grade (Feed Grade, Pharmaceutical, Food and Supplement Grade), By Application (Animal Feed, Aquaculture Feed, Pharmaceuticals and Clinical Medicine, Dietary Supplements and Human Nutrition), By Animal Type (Poultry, Swine, Ruminants, Aquaculture, Pet Food), By Distribution Channel (Direct Sales, Distributors and Wholesalers, Online B2B Platforms), across 5 geographic regions, and 22 countries.

Feed Fortification Demand and Livestock Nutrition Requirements

The vitamin K3 industry supplies synthetically produced menadione derivatives used predominantly as nutritional additives in poultry, swine, ruminant, aquaculture, and companion-animal feed. Commercial products are commonly offered as menadione sodium bisulphite and menadione nicotinamide bisulphite because these water-soluble forms can be incorporated into premixes, compound feed, milk replacers, and extruded formulations. Demand is linked to intensive livestock production, precision micronutrient supplementation, feed conversion objectives, and the need to support normal blood coagulation and skeletal physiology. Poultry and swine premixes represent important applications because diets are formulated against specific physiological stages and production targets. Purchasing behavior is strongly influenced by active-content

consistency, premix compatibility, regulatory authorization, origin diversification, and supply reliability. Competitive pressure remains pronounced due to ample Chinese availability, cautious inventory management, and limited non-Chinese production.

Stable Menadione Forms, Regulatory Renewal, and Supply Diversification

Manufacturers are responding through differentiated chemical forms, formulation stability, and broader animal-nutrition support. dsm-firmenich supplies feed-grade vitamin K3 as MSB and MNB products for mash, pelleting, expansion, extrusion, and liquid feeding applications, supported by its OVN Optimum Vitamin Nutrition framework and digital supplementation guidance. Dirox produces conventional Vitamin K3 MSB and markets KAVIST MNB, a menadione–nicotinamide complex positioned for improved stability in vitamin premixes, alongside carrier-based variants intended for demanding formulation environments. Regulatory renewal activity has also involved DSM Nutritional Products, Oxyvit, Orffa, ADM, and other applicants, with the European food-safety assessment confirming that authorized MSB and MNB forms remain effective and safe under approved feed-use conditions. Producers are simultaneously evaluating chromium-free processing routes as buyers intensify scrutiny of manufacturing inputs and product origin.

Chromium-Free Processing, Premix Stability, and Regional Supply Resilience

Manufacturer-led trends are moving toward higher-stability MNB formats, controlled-particle products, and carrier systems that protect vitamin activity during storage and feed processing. Chromium-free production is emerging as a strategic development area, although commercial economics and large-scale availability remain under evaluation. Feed additive companies are also integrating vitamin K3 into broader supplementation platforms that provide species-, life-stage-, and production-specific recommendations rather than selling isolated micronutrients without technical support. Digital formulation calculators and updated nutritional guidelines are strengthening supplier relationships with premix companies, integrators, and livestock producers. Supply-chain diversification is receiving greater attention as Chinese material remains dominant and non-Chinese availability is comparatively constrained. Manufacturers with vertically integrated intermediates, regional warehousing, auditable quality documentation, and flexible MSB–MNB portfolios are better positioned to address short purchasing cycles, origin requirements, and formulation-specific performance expectations.

Shifting Consumer Expectations and Industry Transformation

Young and adult consumers across markets are increasingly scrutinizing products beyond price and brand, seeking greater visibility into ingredients or materials, their origin, manufacturing location, quality, sourcing practices, and environmental attributes. This is increasing the importance of ingredient lists, nutrition labeling, allergen declarations, certifications, sourcing information and other product claims, while also raising the bar for transparency and substantiation.

In addition, the industry is being reshaped by advances in AI, ingredient and formulation technologies, automation, digital commerce, packaging technology and data analytics, creating new opportunities to accelerate product development, improve product quality and optimize operations. However, these capabilities require higher capital commitments, particularly as companies invest in store expansion and refurbishment, automation, AI-enabled systems, digital infrastructure and other productivity-enhancing technologies.

Competitive dynamics are also shifting as private-label and disruptor brands raise value expectations across selected price points, pushing established players to sharpen their entry, core and premium propositions. Private-label expansion, adjacent-category opportunities, M&A and AI are consequently creating new avenues for growth for manufacturers, suppliers and other industry participants across both developed and developing markets.

Impact of Tariffs and Inflation Rates on Vitamin K3 Markets and Companies

Tariffs and elevated inflation are directly reshaping the cost structure and pricing strategies of Food & Beverages and Consumer Goods companies. The impact is particularly visible in imported ingredients and raw materials, packaging materials, energy, transportation, and other internationally sourced inputs, while higher consumer prices are increasing pressure on household purchasing decisions. The IMF WEO Data 2026 projects global headline inflation at 4.7% in 2026, while the continued use of tariffs and other trade measures is increasing uncertainty around sourcing and cross-border costs.

The report quantifies the impact of tariff changes and inflation on the market by analyzing country-level inflation trends, tariff exposure, import dependence, input-cost movements and pricing conditions, and assesses their implications for market volumes, revenues and margins.

Key Value-Creating Activities and Participants Across the Vitamin K3 Industry Value Chain

Vitamin K3 value chains are becoming more cost-sensitive and closely integrated, with changes in input prices, sourcing concentration, production efficiency, packaging costs, logistics and channel economics directly influencing margins and competitive positioning at each stage.

The report maps the value chain from upstream suppliers to end-use channels, identifies the principal participants and value-adding activities at each stage, and assesses the relative importance of procurement, manufacturing, packaging, logistics, distribution and retail in the forecast period.

Vitamin K3 Pricing analysis- How Input Costs, Competition and Positioning Influence Vitamin K3 Market Pricing

Pricing analysis in the report establishes how prices differ across products, segments, countries and channels and what is driving those differences. The report provides historical and current price benchmarks, country-level and regional comparisons, product-level pricing, and an assessment of the principal factors influencing price movements.

Five forces analysis- How Competitive Forces Are Shaping the Vitamin K3 Industry

The chapter in the Vitamin K3 report evaluates competitive rivalry, threat of new entrants, bargaining power of suppliers, bargaining power of buyers, and threat of substitutes, with each force assessed against the market's actual operating conditions. It analyzes market factors including fragmentation, product differentiation, manufacturing and distribution requirements, switching costs, supplier concentration, raw-material availability, retailer purchasing power, and the ability of consumers to substitute between brands. The report also examines how e-commerce and marketplaces are lowering certain barriers to market access while intensifying price transparency, and how established distribution networks, brand recognition, scale and customer relationships continue to protect incumbents across categories.

Critical Success Factors- Key Factors Determining Competitive Success in the Vitamin K3 Industry

The report identifies the critical success factors that fuel growth in the Vitamin K3 market, in addition to market trends and company capabilities. The Vitamin K3 report evaluates critical success factors against the market's competitive environment and assesses how leading participants are strengthening them. Further, the chapter identifies the factors with strongest influence on market-share retention, customer loyalty, pricing power, operating performance, and long-term competitive differentiation.

Segmentation analysis- How Demand Is Distributed Across Key Segments of the Vitamin K3 Market

The report analyzes the global and regional markets across key types, applications, and other segments from 2021 to 2025. Further, forecasts are provided from 2026 to 2032. Key segments included in the study are By Product Form (Menadione Sodium Bisulfite, Menadione Nicotinamide Bisulfite, Menadione Dimethylpyrimidinol Bisulfite, Pure Menadione), By Grade (Feed Grade, Pharmaceutical, Food and Supplement Grade), By Application (Animal Feed, Aquaculture Feed, Pharmaceuticals and Clinical Medicine, Dietary Supplements and Human Nutrition), By Animal Type (Poultry, Swine, Ruminants, Aquaculture, Pet Food), By Distribution Channel (Direct Sales, Distributors and Wholesalers, Online B2B Platforms).

US Vitamin K3 Market - Strong Consumer Spending, Private-Label Expansion and Premium Product Demand

The US Vitamin K3 companies are focusing on value positioning, distribution strength, product differentiation, and operating efficiency as private-label products gain ground against national brands. The US store-brand sales reached \$282.8 billion in 2025, growing 3.3% versus 1.2% for national brands, while store brands reached a record 21.3% dollar share and 23.5% unit share according to the Private Label Manufacturers Association. The report provides the US Vitamin K3 market size outlook from 2021 to 2032 and the key factors shaping the market along with key strategies adopted by leading companies.

Canada Vitamin K3 Market - Affordability, Retail Concentration and Supply-Chain Resilience Shape Market Growth

Over the past two years, Canadian companies have been focusing on value, supply-chain resilience and manufacturing efficiency to overcome trade and cost pressures. Retail demand also remained firm, with food and beverage retail sales increasing 4.4% year-on-year in December 2025, led by packaged dry foods, fresh meat and poultry,

and snacks, according to Statistics Canada. The report identifies competitive pricing and product value, retailer access, diversified sourcing, productivity, brand positioning, and portfolio innovation as key success factors across the Canadian Vitamin K3 value chain.

Mexico Vitamin K3 Market- Rising Consumption, Manufacturing Expansion and Export Integration Drive Market Development

Mexico's Vitamin K3 market is supported by a large domestic consumer base, established manufacturing capabilities, and strong export integration, while pricing remains an important consideration for consumers and manufacturers. The INEGI reported that the consumer prices for food, beverages and tobacco increased 5.13% year-on-year in May 2026, compared with 3.94% for overall consumer prices, keeping affordability and price management central to category performance. Leading companies are focusing on domestic manufacturing scale, ingredient availability, export competitiveness, product differentiation, efficient sourcing and supply-chain execution to gain profit margins.

Germany Vitamin K3 Market- Private-Label Strength, Price Sensitivity and Manufacturing Efficiency Shape Competition

Value-for-money, private-label competitiveness, efficient sourcing, and cost control are central to market performance and continue to shape the market outlook. German food prices remained structurally above their pre-inflation baseline: the food and non-alcoholic beverages CPI reached 136.2 in 2025 (2020=100), compared with 121.9 for the overall CPI, although annual food inflation moderated to 2.0% in 2025. The market is also being influenced by Germany's policy push toward healthier eating and greater development of alternative protein products, creating additional opportunities for reformulation and product innovation.

France Vitamin K3 Market- Premium Food Culture, Retail Transformation and Selective Consumer Spending Drive Demand

France's Vitamin K3 market is being shaped by moderating food inflation, cautious household consumption and a shift in retail demand toward value and specialized formats. Household final consumption expenditure increased only 0.4% in volume in 2025, while household purchasing power declined 0.4%, keeping affordability and price-value positioning important despite the easing of inflation. Vitamin K3 companies operating in France are balancing value-oriented pricing with quality and differentiation,

strengthening supermarket and alternative-format distribution, managing procurement and supply-chain costs, and responding to increasingly selective household spending.

UK Vitamin K3 Market- Import Dependence, Retail Concentration and Product Portfolio Expansion Influence Market Growth

The UK Vitamin K3 market is strongly influenced by import dependence, household affordability, and retail concentration. Consumer expenditure on food and alcoholic drinks reached ?303.3 billion in real terms in 2025, up 1.1%, with spending on food and drink eaten outside the home increasing 2.3% to ?137.7 billion, while household food expenditure was broadly flat. The structure of the industry also favors companies able to operate efficiently at scale: approximately 98.8% of UK food and drink manufacturing businesses are SMEs, creating a large and fragmented supplier base alongside major manufacturers and retailers. Over the forecast period, competitive pricing, procurement efficiency, product differentiation, retailer and foodservice relationships, import management and the ability to respond remain key success factors.

Spain Vitamin K3 Market- Household Consumption, Tourism and Export-Oriented Manufacturing Support Demand

Spain's Vitamin K3 market is supported by strong household food expenditure, a large tourism-driven consumption base and a highly export-oriented food industry, although consumers remain sensitive to price increases. Tourism provides an additional demand channel: international tourists spent €11.7 billion in Spain in April 2026 alone, up 7.4% year-on-year, including €1.99 billion on food and drinks, up 6.8%. Spain's food industry also reached a record level of exports in 2025, reinforcing its importance as an export manufacturing base and exposing producers to international trade conditions and supply-chain developments.

Italy Vitamin K3 Market- Product Quality, Heritage and Export Competitiveness Remain Key Market Drivers

Italy's consumption structure favors companies capable of maintaining value across differentiated price points: household consumption expenditure averaged €2,738 per month in 2023, up 4.3% from 2022, although the increase reflected both higher spending and price effects. Italy's large manufacturing and export base supports demand for products with strong quality, provenance, and differentiation, particularly where Italian origin provides a competitive advantage. Companies that can combine Italy's established food-manufacturing capabilities with tighter cost control and

differentiated products are better positioned to navigate slower domestic consumption and renewed price pressure.

China Vitamin K3 Market- Digital Commerce, Brand Trust and Selective Consumer Spending Reshape Demand

China's Vitamin K3 markets are being shaped by large-scale domestic consumption, rapid online retail expansion, increasingly selective spending and a widening performance gap between categories. Total retail sales of consumer goods reached RMB 50.1 trillion in 2025, up 3.7%, significantly outperforming beverages at 1.0%. Online retail is particularly important: physical-goods online sales reached RMB 13.1 trillion, representing 26.1% of total consumer-goods retail sales, while online sales of food increased 14.5% according to the National Bureau of Statistics of China. Established brands retain an advantage where consumers prioritize familiarity and brand authority, while the rapid expansion of online food sales creates opportunities for digitally native brands and manufacturers capable of using data, AI, and platform ecosystems.

India Vitamin K3 Market- Rising Consumption, Increasing Investment and Expanding Distribution Create Growth Opportunities

India's Vitamin K3 market is being supported by rising household consumption, a large and increasingly diversified consumer base, expansion of food processing and continued investment in formal food manufacturing. India's rural monthly per-capita consumption expenditure reached ₹4,122 in 2023–24, up from ₹3,773 in 2022–23, while urban MPCE increased to ₹6,996, highlighting the continued expansion of household purchasing capacity across both rural and urban markets. The supply side is also becoming more organized and processing-intensive. Digital commerce and AI-enabled consumer engagement are also becoming increasingly relevant, particularly as Indian consumers adopt digital tools across product discovery and purchasing.

Japan Vitamin K3 Market- Aging Consumers, Household Price Sensitivity and Digital Purchasing Reshape the Market

Japan's Vitamin K3 markets are being shaped by high food expenditure, renewed price pressure and increasingly cautious real household consumption, alongside a structurally mature consumer base. Price pressure has also remained visible in 2026, with Japan's headline CPI increasing 1.5% year-on-year in May 2026, while core inflation excluding fresh food increased 1.4%. Meanwhile, online purchasing remains an important route to

consumers: 55.3% of two-or-more-person households used online shopping in May 2026, with food contributing materially to the increase in online-shopping expenditure. Companies also need to manage smaller household sizes and differing consumption patterns by age, while maintaining strong product differentiation in a mature market where incremental volume growth is more difficult to achieve.

Brazil Vitamin K3 Market- Strong Domestic Consumption and Export-Oriented Manufacturing Drive Growth

Brazil's Vitamin K3 market is supported by a large domestic consumption base, a highly integrated agricultural and food-processing sector, and exceptional export competitiveness, while renewed food-price pressure is keeping affordability important. The country's food and beverage industry generated R\$1.388 trillion in revenue in 2025, equivalent to 10.9% of national GDP, with domestic sales reaching R\$1.02 trillion; retail accounted for R\$732 billion and foodservice R\$287.9 billion. Real industry sales increased 2.2%, while companies invested R\$41.3 billion, up 6.8%, including R\$26.7 billion in innovation, plant modernization and new technologies.

Middle East Africa Vitamin K3 Market- Import Dependence and Value-Added Products Gaining Steady Demand Growth

The Middle East Vitamin K3 markets are being shaped by high dependence on food imports, food-security investment, urbanization, tourism, premium retail and increasingly selective consumer spending, with conditions differing substantially between Gulf markets and the wider region. The GCC recorded overall inflation of only 1.8% in 2025, while food and beverage prices increased 1.2%, indicating relatively contained consumer-price pressure compared with many global markets. Across the region, this combination of import exposure and localization is increasing the importance of supplier diversification, local production, inventory management, and efficient logistics, while strong tourism, hospitality, and modern retail ecosystems are supporting demand for differentiated, convenience-oriented, and premium products.

Vitamin K3 Competitive Landscape

The Vitamin K3 competitive landscape is becoming more fragmented as established multinational brands compete simultaneously with private-label products, regional manufacturers, digitally native brands and category-focused disruptors. Competitive advantage is increasingly determined by the ability to balance price, product quality, innovation, distribution reach and speed of response rather than by brand scale alone.

The report provides detailed analysis of leading companies including business profile, SWOT analysis, products and services, and financial profiles of Balaji Amines, Brother Enterprises Holding Co., Ltd., Chongqing Sunshine Biotech Co., Ltd., Anhui Huayuan Chemical Co., Ltd., Taizhou City Hanjia Biology Technology Co., Ltd., MP Biomedicals, Tokyo Chemical Industry Co., Ltd., Merck KGaA, Santa Cruz Biotechnology, Inc., Spectrum Chemical Manufacturing Corp..

Vitamin K3 Market Segmentation

By Product Form

Menadione Sodium Bisulfite

Menadione Nicotinamide Bisulfite

Menadione Dimethylpyrimidinol Bisulfite

Pure Menadione

By Grade

Feed Grade

Pharmaceutical

Food and Supplement Grade

By Application

Animal Feed

Aquaculture Feed

Pharmaceuticals and Clinical Medicine

Dietary Supplements and Human Nutrition

By Animal Type

Poultry

Swine

Ruminants

Aquaculture

Pet Food

By Distribution Channel

Direct Sales

Distributors and Wholesalers

Online B2B Platforms

Geographical Coverage

North America (US, Canada, Mexico)

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

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

Latin America (Brazil, Argentina, Rest of South and Central America)

Middle East and Africa (Saudi Arabia, UAE, MENA, South Africa, Sub-Saharan Africa)

Leading Companies in Vitamin K3 Industry

Balaji Amines

Brother Enterprises Holding Co., Ltd.

Chongqing Sunshine Biotech Co., Ltd.

Anhui Huayuan Chemical Co., Ltd.

Taizhou City Hanjia Biology Technology Co., Ltd.

MP Biomedicals

Tokyo Chemical Industry Co., Ltd.

Merck KGaA

Santa Cruz Biotechnology, Inc.

Spectrum Chemical Manufacturing Corp.

Frequently Asked Questions

1. What is the current size of the Vitamin K3 market?

The Vitamin K3 market is estimated at US\$ in 2026, based on the report's market sizing methodology. Demand is supported by new product launches, while competition from local labels is influencing near-term market performance. The market is expected to reach US\$ by 2032, reflecting the investment expansion of leading companies.

2. How fast is the Vitamin K3 market expected to grow through the forecast period?

The Vitamin K3 market is projected to expand at a 5.66% CAGR between 2026 and 2032, with growth concentrated in Asia Pacific.

3. Which segment currently accounts for the largest share of the Vitamin K3 market?

The report analyzes the report across By Product Form (Menadione Sodium Bisulfite, Menadione Nicotinamide Bisulfite, Menadione Dimethylpyrimidinol Bisulfite, Pure Menadione), By Grade (Feed Grade, Pharmaceutical, Food and Supplement Grade), By Application (Animal Feed, Aquaculture Feed, Pharmaceuticals and Clinical Medicine,

Dietary Supplements and Human Nutrition), By Animal Type (Poultry, Swine, Ruminants, Aquaculture, Pet Food), By Distribution Channel (Direct Sales, Distributors and Wholesalers, Online B2B Platforms).

4. Which regions are generating the largest demand for Vitamin K3 products?

Differences in consumer preferences, pricing, regulation and distribution infrastructure continue to create significant variations in market performance across regions. Asia Pacific is the fastest growing market driven by China, India, Southeast Asia, and other emerging markets.

5. Which companies are leading the Vitamin K3 market?

The Vitamin K3 market includes major participants such as Balaji Amines, Brother Enterprises Holding Co., Ltd., Chongqing Sunshine Biotech Co., Ltd., Anhui Huayuan Chemical Co., Ltd., Taizhou City Hanjia Biology Technology Co., Ltd., MP Biomedicals, Tokyo Chemical Industry Co., Ltd., Merck KGaA, Santa Cruz Biotechnology, Inc., Spectrum Chemical Manufacturing Corp.. Leading companies compete through product portfolio, distribution, technology, while recent competitive activity includes M&A, product launches, capacity expansion, and geographic expansion. Market leadership varies significantly by product category and geography.

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 - Pure Menadione
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Feed Grade
Pharmaceutical
Food and Supplement Grade
By Application
Animal Feed
Aquaculture Feed
Pharmaceuticals and Clinical Medicine
Dietary Supplements and Human Nutrition
By Animal Type
Poultry
Swine
Ruminants
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- 11.4. Middle East and Africa Vitamin K3 Market Trends and Growth Opportunities to
- 11.5. Middle East and Africa Vitamin K3 Market Size Outlook by Type
- 11.6. Middle East and Africa Vitamin K3 Market Size Outlook by Application
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- 11.8. Saudi Arabia
 - 11.8.1. Key Statistics
 - 11.8.2. Saudi Arabia Vitamin K3 Market Size Outlook, 2021- 2032
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 - 11.9.2. The UAE Vitamin K3 Market Size Outlook, 2021- 2032
 - 11.9.3. Key Market Drivers and Industry Developments in the UAE Vitamin K3 Companies
- 11.10. Africa
 - 11.10.1. Key Statistics
 - 11.10.2. Africa Vitamin K3 Market Size Outlook, 2021- 2032
 - 11.10.3. Key Market Drivers and Industry Developments in Africa Vitamin K3 Companies

CHAPTER 12- COMPANY PROFILES

- 12.1. Top Companies in Vitamin K3 Industry
 - Balaji Amines
 - Brother Enterprises Holding Co., Ltd.
 - Chongqing Sunshine Biotech Co., Ltd.
 - Anhui Huayuan Chemical Co., Ltd.
 - Taizhou City Hanjia Biology Technology Co., Ltd.

MP Biomedicals

Tokyo Chemical Industry Co., Ltd.

Merck KGaA

Santa Cruz Biotechnology, Inc.

Spectrum Chemical Manufacturing Corp.

12.2. Business Description

12.3. SWOT Profiles

12.4. Products and Services

CHAPTER 13- APPENDIX

Glossary of Terms

Research Methodology & Data Sources

Conclusion & Strategic Recommendations

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