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Agri Export Quality Monitoring Market Forecasts to 2034 – Global Analysis By Component (IoT Sensors, Vision & Imaging, Lab Testing Equipment and Blockchain Traceability), Parameter, Commodity, Service Type, End User and By Geography

https://marketpublishers.com/r/A4703D32FDEEEN.html
Date: May 2026
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: A4703D32FDEEEN

Abstracts

According to Stratistics MRC, the Global Agri Export Quality Monitoring Market is accounted for $3.8 billion in 2026 and is expected to reach $12.4 billion by 2034 growing at a CAGR of 15.9% during the forecast period. Agri export quality monitoring refers to hardware sensor systems, machine vision and imaging platforms, laboratory testing equipment, and blockchain traceability solutions that verify physical quality attributes, chemical residue compliance, microbiological safety, product authenticity and origin, and packaging integrity of agricultural commodities and processed food products destined for international export markets, enabling exporters to meet importing country regulatory standards, retailer buyer specifications, and consumer confidence certification requirements across global agri-food trade flows.

Market Dynamics:

Driver:

Importing Country Residue Rejection Economic Risk

Documented economic damage from agricultural export shipment rejections at major importing country borders from pesticide residue non-compliance, mycotoxin exceedance, and microbiological contamination failure costing exporting country operators tens of millions in rejected cargo value and market access suspension is creating powerful economic motivation for systematic export quality monitoring

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investment before shipment departure. Single rejection incidents generating reputational and market access impact that exceeds total quality monitoring system investment justify comprehensive pre-export testing programs.

Restraint:

Testing Laboratory Accreditation Infrastructure Gaps

Limited accredited food safety testing laboratory capacity in major agricultural exporting developing countries creating geographic access barriers and testing turnaround time constraints that delay export shipment readiness certification, with laboratory infrastructure development requiring substantial government and private sector capital investment in equipment, trained personnel, and quality management system accreditation that constrains accessible testing infrastructure expansion pace relative to export volume growth.

Opportunity:

Rapid Field Testing Technology Democratization

Portable rapid field testing technology advancement including lateral flow assay strips, handheld NIR analyzers, and mobile spectroscopy devices enabling on-site quality screening at harvest, primary processing, and packing stages without laboratory sample submission represents a market expansion opportunity enabling pre-export quality risk identification before expensive logistics investment in shipments that ultimately fail destination market testing.

Threat:

Importing Country Standard Inconsistency Complexity

Inconsistent Maximum Residue Limit standards across major importing markets including EU, US, Japan, and China for the same pesticide-commodity combinations creating regulatory compliance management complexity for exporters serving multiple destination markets simultaneously, requiring monitoring programs calibrated to the most stringent applicable standard that generates over-testing cost burden constraining small and medium exporter participation in multi-market export programs.

Covid-19 Impact:

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COVID-19 supply chain disruptions creating import country border testing capacity constraints and quarantine delays amplified the economic consequences of export quality failures, motivating exporting country investment in upstream quality verification to minimize rejection risk. Post-pandemic food safety regulatory tightening in major importing markets continues driving export quality monitoring market growth globally.

The blockchain traceability segment is expected to be the largest during the forecast period

The blockchain traceability segment is expected to account for the largest market share during the forecast period, due to the rapidly growing institutional mandate for verifiable provenance documentation from importing country buyers and retailers that blockchain traceability uniquely provides through immutable origin and handling record systems, combined with premium market price realization for blockchain-verified authenticated origin agricultural commodities in premium retail channels globally.

The physical quality segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the physical quality segment is predicted to witness the highest growth rate, driven by automated optical sorting and computer vision inspection system deployment enabling continuous 100 percent physical quality inspection at commercial processing line speeds impossible through manual sampling, generating exportable evidence of systematic physical quality assurance that premium importing market buyers increasingly require as documented quality management standard verification.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, due to the United States hosting leading agricultural export quality testing and certification services infrastructure, major testing company headquarters including SGS, Bureau Veritas, and Eurofins North American operations generating substantial domestic revenue, and strong FDA and USDA export certification program institutional procurement.

Region with highest CAGR:

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Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, due to rapidly expanding agricultural export volumes from India, Vietnam, Indonesia, and Thailand requiring quality monitoring infrastructure investment, EU and US market access requirements creating regulatory compliance investment motivation, and government agricultural export promotion programs funding testing infrastructure development.

Key players in the market

Some of the key players in Agri Export Quality Monitoring Market include SGS, Bureau Veritas, Intertek Group, Eurofins Scientific, ALS Limited, Microbac Laboratories, T?V Nord Group, M?rieux NutriSciences, Cotecna, Neogen Corporation, AsureQuality, Control Union, QIMA, AGQ Labs USA, and Alex Stewart Agriculture.

Key Developments:

In April 2026, Eurofins Scientific launched a rapid 4-hour multi-pesticide residue screening service for export-ready agricultural commodities enabling same-day certification decisions for time-sensitive fresh produce export logistics programs across European operations.

In March 2026, QIMA introduced an AI-powered export quality inspection platform combining machine vision physical quality assessment with digital compliance workflow management for agricultural commodity exporters across 85 country inspection service coverage.

In December 2025, Neogen Corporation expanded its rapid mycotoxin lateral flow test portfolio with new aflatoxin and fumonisin combination test strips validated for mize and groundnut export compliance screening in African and South Asian production regions.

Components Covered:

IoT Sensors

Vision & Imaging

Lab Testing Equipment

Blockchain Traceability

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Parameters Covered:

- Physical Quality
- Chemical Residues
- Microbiological Safety
- Authenticity & Origin
- Packaging Integrity

Commodities Covered:

- Fresh Produce
- Grains & Pulses
- Spices & Condiments
- Tea & Coffee
- Seafood

Service Types Covered:

- Inspection
- Testing
- Certification
- Auditing

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End Users Covered:

- Exporters
- Importers
- Government Agencies
- Third-Party Labs

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom
  - Germany
  - France
  - Italy
  - Spain
  - Netherlands
  - Belgium
  - Sweden

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- Switzerland
- Poland
- Rest of Europe

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Thailand
- Malaysia
- Singapore
- Vietnam
- Rest of Asia Pacific

South America

- Brazil
- Argentina
- Colombia
- Chile

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- Peru
- Rest of South America

Rest of the World (RoW)

- Middle East
  - Saudi Arabia
  - United Arab Emirates
  - Qatar
  - Israel
  - Rest of Middle East
- Africa
  - South Africa
  - Egypt
  - Morocco
  - Rest of Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations

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- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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