



BatchMaster Nutraceutical Edition

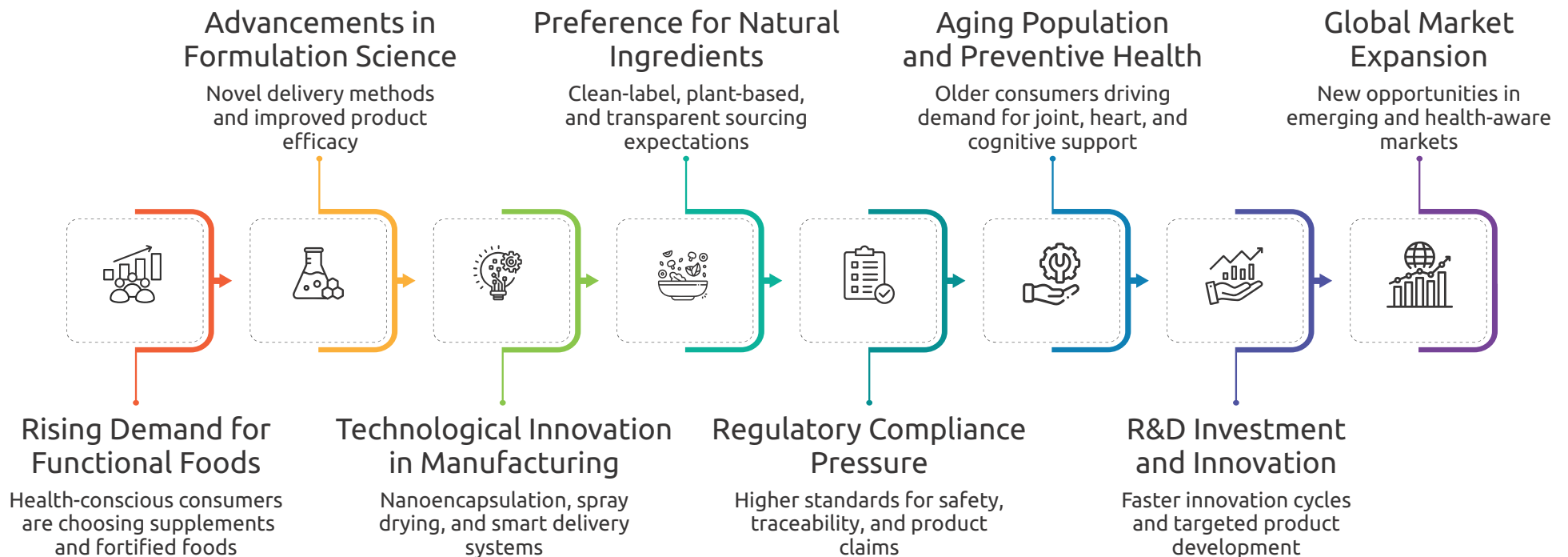
Empowering Nutraceutical Growth—
From Lab to Label



The nutraceutical industry is evolving rapidly, fueled by consumer demand for functional foods, dietary supplements, and clean-label, science-backed health products. From aging population seeking preventive care to younger consumers focused on immunity, energy, and well-being, the shift toward personalized nutrition is redefining how products are formulated and delivered.

This growth is further accelerated by advancements in formulation science, manufacturing technologies, and digital health. As regulatory requirements tighten and innovation cycles shorten, manufacturers must balance speed, compliance, and quality like never before.

Key Growth Drivers Shaping Nutraceutical Manufacturing



BatchMaster Nutraceutical Edition is designed to meet these demands. Designed specifically for nutraceutical manufacturers, it manages every aspect of the process—from R&D and formulation to production, quality, compliance, traceability, and inventory control. Whether you're a primary process manufacturer, a contract manufacturer, or operate under private-label, white-label, or custom formulation models, BatchMaster offers the scalability and flexibility to meet your operational needs.



Challenges Nutraceutical Manufacturers Face

The nutraceutical industry is booming, but with growth comes complexity and challenges. From maintaining quality to ensuring compliance, nutraceutical manufacturers face unique operational and regulatory hurdles that demand specialized, industry-specific ERP solutions.



Regulatory Compliance and Traceability

Navigating strict FDA guidelines and cGMP standards is essential for staying audit-ready and compliant. Yet, many manufacturers struggle with:

- Ensuring complete traceability across ingredients, intermediates, and finished goods
- Managing Master Batch Records (MBR) and Batch Manufacturing Records (BMR) without errors
- Meeting label claim requirements with precise formulation and documentation
- Tracking and managing deviations, recalls, and adverse events in real time

Risk: Inadequate tracking or compliance can result in costly recalls, regulatory penalties, or brand damage.



Quality Control and Assurance at Every Stage

Maintaining consistent product quality, from raw material intake to final packaging, requires multi-level testing and control mechanisms. Nutraceutical manufacturers often face:

- Variability in herbal ingredients due to seasonality and origin
- Risk of contamination (e.g., heavy metals, microbes, pesticides)
- Lack of robust systems for Certificate of Analysis (COA) validation, in-process testing, and stability checks

Risk: Without automated QA/QC processes, businesses face production delays, high rejection rates, and non-compliance issues.



Complex Supply Chains and Inventory Management

Nutraceutical manufacturers often deal with a wide range of raw materials, many of which have short shelf lives or require specialized handling. Some of the challenges they face include:

- Difficulty in sourcing authentic and potent ingredients
- Challenges with FEFO (First Expired, First Out) inventory control
- Supply chain visibility issues with subcontractors and third-party vendors

Risk: Poor inventory planning leads to wastage, missed batch production, and rising operational costs.



Product Development and Formulation Complexity

Bringing a new product to market isn't just about innovation—it's about precision. However, Nutraceutical manufacturers often find themselves stuck in product development facing issues such as:

- Variability in active ingredient potency and bioavailability
- Difficulty balancing active loads with dosage form limitations (especially for seniors or children)
- Stability concerns due to oxidation, hygroscopicity, or thermal sensitivity

Risk: Inaccurate formulations or product instability can delay launches, inflated costs, or lead to label claim violations.



Operational Inefficiencies and Paper-Based Processes

Despite the complexity of nutraceutical manufacturing, many businesses still rely on outdated, manual workflows, which lead them to challenges such as:

- Paper-based checklists and inspection logs prone to errors or backdating
- Inability to scale or automate contract manufacturing operations (e.g., private-label jobs)
- Lack of real-time visibility into production scheduling and capacity

Risk: Operational inefficiencies and delays directly impact profitability and customer satisfaction.



Contract Manufacturing and Custom Formulation

Contract manufacturers or businesses operating under private-label, white-label, or custom formulation models face additional hurdles:

- Handling customer-supplied ingredients and packaging specs
- Managing multiple versions of the same product for different brands
- Tracking and segregating inventory by client or project
- Generating brand-specific documentation (e.g., COAs, Supplement Facts, labeling)
- Coordinating subcontracted operations with full traceability and timely reporting

Risk: Poor handling of contract jobs can lead to inventory errors, missed deadlines, and lost client trust.



What's at Stake if These Challenges Aren't Addressed?



Non-Compliance Risks

Missed audits, failed inspections, and regulatory penalties



Costly Product Recalls

Quality issues and traceability failures trigger widespread recalls



Lost Revenue Opportunities

Delays in product launches due to poor formulation or inventory issues



Damaged Brand Reputation

Inconsistent quality and late deliveries impact customer trust



Profit Erosion

Waste, rework, and inefficiencies hurt margins in a competitive market



How BatchMaster Nutraceutical Edition Mitigates These Risks



Regulatory Confidence

Ensure compliance with FDA 21 CFR Part 111, cGMP, and global labeling standards with built-in controls and documentation



Full Traceability

Track every lot from raw material to finished product with one-click recalls and audit-ready batch records



Accelerated Product Development

Speed up formulation, approvals, and go-to-market cycles with built-in PLM tools and costing analysis



Consistent Product Quality

Embed QA/QC at every stage to ensure quality, compliance, and customer satisfaction



Operational Efficiency

Streamline processes, reduce manual work, and increase production agility to protect margins and scale operations

Why do Nutraceutical Manufacturers Trust BatchMaster?

Nutraceutical manufacturers need more than a standard ERP. They need a solution and partner that truly addresses their unique challenges. BatchMaster delivers tailored solutions designed specifically for the industry, ensuring precision, compliance, traceability, and efficiency at every step. Here's what sets us apart:



30+ Years of Nutraceutical Expertise

With over three decades of specialization, BatchMaster embeds proven industry best practices to address the real-world needs of nutraceutical manufacturers.



Purpose-Built for the Nutraceutical Industry

Engineered to meet critical requirements, from precise formulation and batch production to stringent regulatory compliance.



Comprehensive Manufacturing Capabilities

Seamlessly manage all aspects of your business with advanced features, including Formulation and R&D Lab, Inventory and Manufacturing Management, Traceability and Compliance, Costing and Quality, Planning and Scheduling, and



Modern Cloud ERP with a Web-Based, Intuitive Interface

Gain anytime, anywhere access to your operations. Visualize real-time data, drill into reports, and empower your teams with a modern, user-friendly platform.



End-to-End In-House Support

Our full-service expertise includes implementation, services, customer support, and more—all delivered by our dedicated in-house team.

Driving Nutraceutical Excellence Across Key Segments



Vitamins and Dietary Supplements

Vitamins, Minerals, Antioxidants and Anti-Aging, Omega-3 and Essential Fatty Acids, Amino Acids, Specialty Supplements, Chewables and Gummies



Functional Foods and Beverages

Functional Foods, Functional Beverages, Probiotics and Gut Health, Dairy Products, Liquid Shots, Specialty Juices, Snacks with Functional Benefits



Sports and Specialized Nutrition

Protein Bars and Powders, Sports Drinks, Energy Drinks for Performance, Amino Acid Supplements, Pre- and Post-Workout Nutrition, Weight Management Products



Medicinal and Botanical Products

Herbal Supplements, Plant-Based and Vegan Nutrition, Botanical Extracts, Natural Functional Foods, Ayurvedic and Traditional Medicine Products, Organic Nutrition, Medicinal Mushrooms

Some of Our Nutraceutical Customers



Get End-to-End Control and Visibility Across Your Nutraceutical Operations

BatchMaster Nutraceutical Edition is an end-to-end ERP solution designed to manage every critical function of your nutraceutical business. From early-stage R&D and formulation through production, compliance, traceability, quality, and final fulfillment, every part of the system is built to work seamlessly together—delivering process precision, visibility, and scalability across your operations.



 Sales Management	 Planning	 Laboratory	 Product Management	 Costing
Customer and Prospect Management	Master Production Schedule (MPS)	Lab Notebook	Formulation	Multiple Costing Models
Sales Quotations, Orders, Contracts	Material Requirement Planning (MRP)	Physical Properties Analysis	Bill of Materials and Process Routings	What If Cost Analysis
Volume-Based and Promotional Pricing	Scheduling	Nutrition Analysis	Work Instructions	Markup, Margin Analysis
Sales Commission Tracking	Real-Time Planning Workbenches and Dashboards	Industry Database Integrations (USDA, Genesis, etc.)	Revision Control and Approvals	Formula Sliding Based on Cost Targets
Single-Click Quote to Order Conversion	Demand and Supply Delineation and Availability View	Formula Search Analysis	New Product Request, Sampling Management	Multi-level Formula/BOM Cost Rollup
Customer Favorite Items and Order History	Auto-Generation of Production Schedules	Lot Potency Management and Shelf Life Control	Product Specifications	Support for Fixed, Setup, and Variable Costs



Procurement

Vendor Management
with cGMP Controls

Purchase Requests,
Orders, Receipts

Approval Workflows
for Purchases

Real-Time Procurement
Dashboard

Purchase Contract
Management

Freight Handling and
Landed Cost
Management



Inventory Management

Item, Warehouse,
Bin Master Setup

Lot and Serial Tracking
(FIFO, LIFO, FEFO)

Inventory Transactions
and Revaluations

Reorder Point
Planning

Containerization and
Palletization

Catch Weight
Management



WMS

Inbound/Outbound
Transactions

Wave Picking and
Directed Putaway

Real-Time Inventory
Visibility

Handheld Device
Support
for Operations

Electronic Batch
Ticket Integration

Dock Scheduling
for Coordination



Compliance

Quality Control and
Assurance

Non-Compliance
and CAPA

Inspection Plans
and Checklist

Complaint
Management

SDS (GHS),
Food Labeling

Standards (FDA,
ISO, GMP, GFSI)

Batch Recall
Management







Traceability

End-to-End
Product Tracking

Bi-Directional
Lot Traceability

Approval Management
with Electronic
Signatures

SDS Compliance
and GHS Labelling

 Manufacturing Execution System	 Production	 Distribution	 Financial Management
Work Order Execution	Production Control	Backorder Management and Partial Shipments	Chart of Accounts and GL Structure
Real-Time Production Monitoring	Electronic Batch Tickets	Freight and Tax Management	Journal Entries and Bulk Upload
Labor Tracking and Material Issuance	Material Allocation	Sales Picking, Packaging, Shipment Processing	AP/AR Invoices and Reconciliation
KPI Dashboards and Visual Displays	Material Usage/Waste Reporting	Bill of Lading Generation	Budgeting and Cash Flow Management
Non-Conformance Reporting	Labor and OH Reporting	Sales Order to Shipment Tracking	1099 Processing
Barcode/RFID Integration	Batch Costing, Efficiency, Yield and Cost Variance Analysis	HazMat Documentation Support	Multi-Company Financial Consolidation

User-Friendly Interface

BatchMaster's intuitive, role-based UI ensures adoption across departments—from formulation teams and QA to finance and operations. Our web-based, intuitive interface includes:

- Real-time dashboards and alerts
- Customizable views by user or department
- Drill-down reporting for better visibility and faster decision-making



Nutraceutical-Focused Features

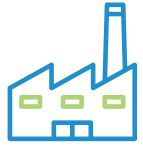
Unlike generic ERP systems with bolted-on features, BatchMaster Nutraceutical Edition is purpose-built for the nutraceutical industry, addressing its complex demands for precision, regulatory compliance, and scalability. Our robust ERP offers specialized capabilities to streamline formulation, ensure traceability, and support growth in a highly regulated environment.

Formulation Management



- Create potency-based formulations that align with label claim requirements
- Automatically select and calculate ingredient quantities based on potency percentages
- Auto-generate Supplement Fact Sheets and manage complex multi-level BOMs—all within a single screen
- Define dosage forms including soft gels, tablets, powders, and capsules for accurate batch planning
- Manage multiple packaging formats for the same formulation to support diverse market and client needs
- Easily substitute raw materials with full impact tracking and compliance control
- Embed manufacturing instructions directly into formulations, including mixing speeds, RPMs, temperatures, and validation steps

Batch Production Management



- Handle campaign, super batch, and sub-batch scenarios across multiple lines or facilities
- Track co-products and by-products generated during production for improved resource utilization
- Generate Electronic Batch Records (EBR) and Master Batch Records (MBR) compliant with FDA 21 CFR
- Monitor production stages in real-time and track resource utilization, ingredient consumption, and process status

Manufacturing Execution System (MES)



- Execute SOPs electronically using checklist-based workflows for standardized, error-free operations
- Capture precise batch weights and material measurements using integrated Electronic Weigh Sheets
- Ensure procedural compliance and traceability on the shop floor with real-time production execution tools

Integrated Quality Control and Assurance



- Built-in QC and QA modules ensure real-time, in-process quality checks (e.g., disintegration, hardness, weight)
- Manage COA generation, non-conformances, AQL, CAPA, stability testing, and lot re-certification
- Track quality by raw material, intermediate, and finished product, with multi-level roll-up testing
- Maintain critical quality documents with version control and secure approval workflows
- Track shelf life and expiration with system-generated alerts to minimize risk and ensure compliance

Regulatory Compliance Management



- Built-in tools for FDA, cGMP, FSMA, 21 CFR Part 111 and 11, and other regulatory frameworks
- Control and manage label claims, SOPs, deviations, audits, and adverse events from a central location
- Automate generation of compliance labels, COAs, and quarantine/release documentation

Inventory Management and Picking



- Gain real-time visibility into raw materials and finished goods across multiple locations
- Track inventory using FEFO and FIFO picking methods, along with material expiry and blending compatibility
- Support key material attributes such as potency, catch weight, varying units of measure, and lot classifications
- Leverage advanced planning tools like MPS and MRP to align procurement and production with demand, expiration dates, and supplier lead times
- Improve inventory accuracy and warehouse productivity with mobile warehousing using RF-enabled handheld devices
- Fully integrate with electronic scales, barcode scanners, and mobile WMS for efficient inventory movements and adjustments

Lot Traceability and Recall Management



- Maintain bi-directional traceability from raw material to shipment
- Perform one-click product recalls with complete visibility into materials, blends, and packaging components
- Audit-ready lot history for compliance, accountability, and customer confidence

Allergen and Ingredient List Management



- Automatically track allergens at the ingredient and batch level to ensure safety and compliance
- Generate ingredient lists based on weight or volume percentages for accurate labeling

Certification Tracking



- Track certifications such as Halal, Organic, Non-GMO, and Kosher with expiration monitoring
- Ensure compliance with market-specific requirements through automated certification management

Advanced Costing and Viability Analysis



- Incorporate ingredient, labor, packaging, and other costs into comprehensive costing models
- Perform “what-if” costing analysis and margin checks, integrated with CRM for seamless quote generation

Product Development Lifecycle Management (PLM)



- Manage formulas, packaging specs, label claims, SOPs, and inspection plans during new product development
- Support pre-approvals and rejections to streamline the product development process

Blending Capacity Optimization



- Automatically adjust inventory and production plans based on blending capacities
- Optimize resource allocation for efficient campaign production in nutraceutical manufacturing

Contract Manufacturing and Subcontracting Management



- Supports both models: customer-supplied ingredients and subcontracted operations
- Tracks consumption, inventory, and reporting across involved parties

Complaint Management and Adverse Event Tracking



- Built-in workflows to manage complaints and adverse events
- Supports investigations and recalls with one-click traceability

GMP Validation and Control



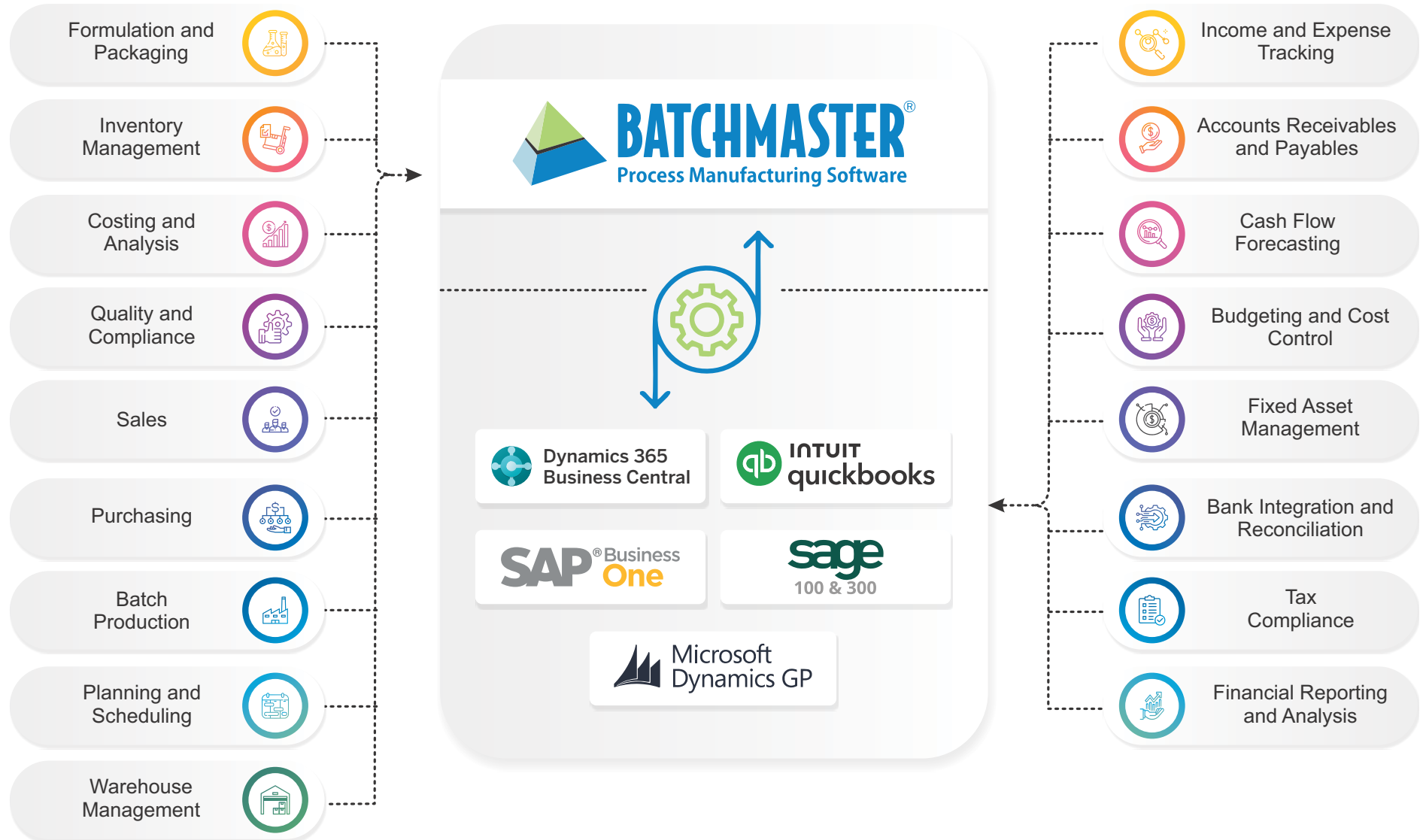
- Enforce validated processes and ensure full cGMP compliance across production operations
- Maintain detailed Batch Manufacturing Records (BMRs) for audit readiness and long-term regulatory storage
- Select and manage only qualified vendors for GMP-controlled materials
- Track, document, and resolve deviations in real time to stay within defined quality and regulatory thresholds
- Support harmonized material movement with clear quality roles and workflow controls

Customer Portal Capabilities



- Allow B2B customers to place purchase inquiries and sales orders independently
- Enable real-time visibility into order status, invoices, quotations, and delivery notes through a centralized portal
- Support 24/7 access for contract manufacturing or private-label clients to monitor their order flow, documentation, and shipment schedules

Seamlessly Integrates with Leading Financial Applications





BIO-BOTANICA® INC.

Customer Spotlight: Bio-Botanica® Inc.

“

BatchMaster has given us the transparency, control, and compliance tools that our nutraceutical manufacturing operations demanded. It's helped us modernize while staying true to the quality and tradition our customers expect.

James Madden

Chief Operating Officer, Bio-Botanica Inc.

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Why Bio-Botanica® Chose BatchMaster ERP?

Bio-Botanica selected BatchMaster ERP for its nutraceutical-specific formulation management, real-time inventory tracking, embedded quality control, and built-in compliance tools to meet stringent FDA and cGMP requirements—all within a fully integrated, easy-to-use platform.

The Results:

- Centralized and streamlined formulation and batch production management
- Real-time visibility into raw material inventory, production, and compliance data
- Automated quality control at every stage—from raw materials to final product
- Complete lot traceability for faster audits and efficient recall management
- Reduced manual documentation with electronic batch records (EBR)
- Faster product development cycles with accurate costing and version control
- Strengthened ability to meet regulatory mandates and customer quality expectations

The Challenge

Bio-Botanica, a leading manufacturer of botanical extracts and nutraceutical ingredients, faced challenges managing the increasing complexity of production, regulatory compliance, and quality assurance. Manual processes and fragmented systems made it difficult to ensure traceability, maintain compliance, and streamline large-scale production efficiently.

[Watch the Bio-Botanica Story](#)

Key Benefits of BatchMaster Nutraceutical Edition

Nutraceutical manufacturers operate in a high-stakes environment where precision, compliance, and efficiency are critical to success. BatchMaster Nutraceutical Edition is a specialized ERP solution crafted to tackle these challenges head-on, delivering measurable benefits that transform operations.



Operational Efficiency

Streamline every stage of your production cycle, from formulation to fulfillment by:

- Reducing manual work with integrated modules and automated workflows
- Eliminating redundancies across purchasing, manufacturing, and inventory
- Monitoring performance in real time and respond proactively to bottlenecks



Regulatory Confidence

Stay audit-ready and compliant with evolving global mandates by:

- Managing compliance with FDA, cGMP, FSMA, and 21 CFR Part 11/111
- Automating documentation and batch records for complete traceability
- Ensuring product label accuracy and supplement fact integrity



Consistent Product Quality

Deliver safe, effective products every time by:

- Embedding QA/QC at every production stage, from raw material to final packaging
- Generating COAs and validate specifications
- Minimizing rework and recalls through early non-conformance detection



Improved Customer Satisfaction

Deliver what your customers want—on time and in full with:

- Real-time inventory visibility improves order accuracy
- Automated scheduling and production planning ensure reliable delivery
- Integrated CRM and customer complaint tracking enhance responsiveness



Faster Product Development

Launch new products with confidence and speed with:

- Centralized control over formulas, packaging, and label claims
- Built-in PLM features helping you to manage approvals, SOPs, and vendor sourcing
- What-if costing tools allowing R&D teams to assess viability from the start



Experience Nutraceutical Manufacturing, Reinvented.

BatchMaster Nutraceutical edition empowers nutraceutical companies to take full control of their formulation, production, compliance, and quality management processes—all from a single, purpose-built platform.

Whether you're scaling up, launching new products, or navigating complex regulatory environments, BatchMaster is your trusted partner in growth and compliance.

Schedule a Personalized Demo

See BatchMaster Nutraceutical Edition in Action

Contact Us to Learn More

🌐 www.batchmaster.com
☎ 949.583.1646 x 2
✉ sales@batchmaster.com

