




BIOACTIVE SAFE STERILIZATION CAPABILITIES


YOUR INGREDIENTS. OUR STERILIZATION.



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Our Capabilities

At **Bioactive Services LLC**, we offer a comprehensive package of services designed to meet the diverse needs of the food, beverage, pet food, and dietary supplement industries. Our state-of-the-art facilities and experienced team ensure the highest quality and safety standards across all our offerings.



Journey of Bioactive Services

2004

▶ We Began as an ingredient distributor for the nutraceutical industry.

2005

▶ Our first facility was 5000 sf building in Avenel, NJ

2006

▶ We outgrew the Avenel building, and moved into 8,000 sf in S.Plainfield.

2009

▶ In 2009 SSUSA, Safe Sterilization was born to fill the need for chemical and radiation free kill step.

2011

▶ Our services again expanded to custom formulations, toll blending and shelf ready blends.

2012

▶ Our facilities grew to over 20,000 sf to meet all our processing needs.

2016

▶ We opened an 11,000 sf facility in Reno Nevada for Safe Sterilization & low allergen processing.

2019

▶ We added another 29,000 sf building in NJ to support our blending services.

2022

▶ Safe Sterilization USA & Bioactive Resources reorganized under one new name Bioactive Services

2023

▶ Jar Filling services are fully operational

2024

▶ SQF Certification

More Expansion Coming Soon!

Bioactive Safe Sterilization Capabilities

Steam Sterilization

At Bioactive Services, we prioritize the safety and efficacy of your dried powdered ingredients. Our advanced steam sterilization process is designed to eliminate harmful pathogens while preserving the bioactivity and quality of your ingredients.

1

Milling

We specialize in the precision milling of dried powdered ingredients. Our state-of-the-art facilities and advanced milling technology ensure consistent particle size, enhanced solubility, and optimized texture for a wide range of applications. Whether you require fine powders for pharmaceuticals, food products, we tailor our milling processes to meet the specific needs of your product, ensuring superior quality and performance.

2

Toll Blending

We specialize in toll blending of dried powdered ingredients, tailored to meet the unique needs of our clients. Our state-of-the-art facilities and expert team ensure the highest standards of quality, safety, and consistency in every batch we produce.

3

Packaging

We provide comprehensive packaging services, including jar filling and pouch packaging, ensuring product integrity, regulatory compliance, and consumer appeal.

4



Steam Sterilization

Safe & Natural Sterilization Services

At Bioactive Safe Sterilization, we specialize in safe and effective sterilization of wholesale bulk ingredients for industries such as:

- Functional Foods
- Nutraceuticals
- Organic Foods
- Pet Food & Nutraceuticals

Ensuring Purity & Safety with Advanced Sterilization

Validated 5-log kill-step

We Provide a

effective organic pathogen reduction treatment. Our unique technology is specifically advantageous for aromatic products, such as herbs and botanicals, that are very sensitive to heat & moisture. Our process has been optimized to minimize the negative impacts found in traditional sterilization on flavor, color vibrancy and moisture content.

Novolyze

Producing > 5 log consistent outcomes has been third party verified by Novolyze

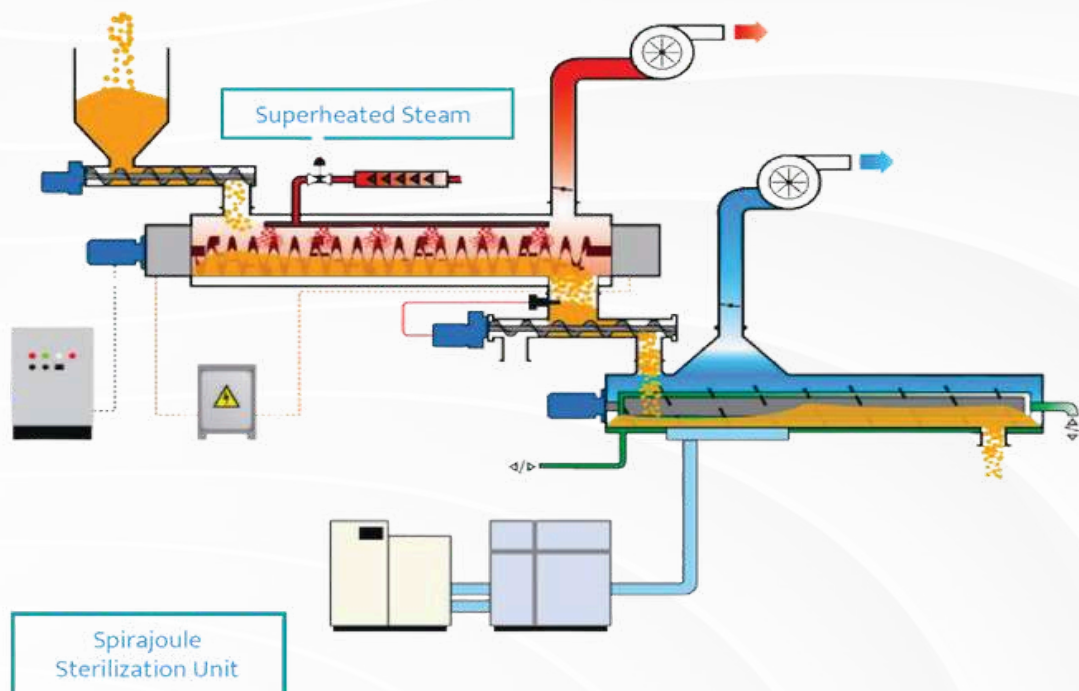
No Chemicals

No Radiation All Natural



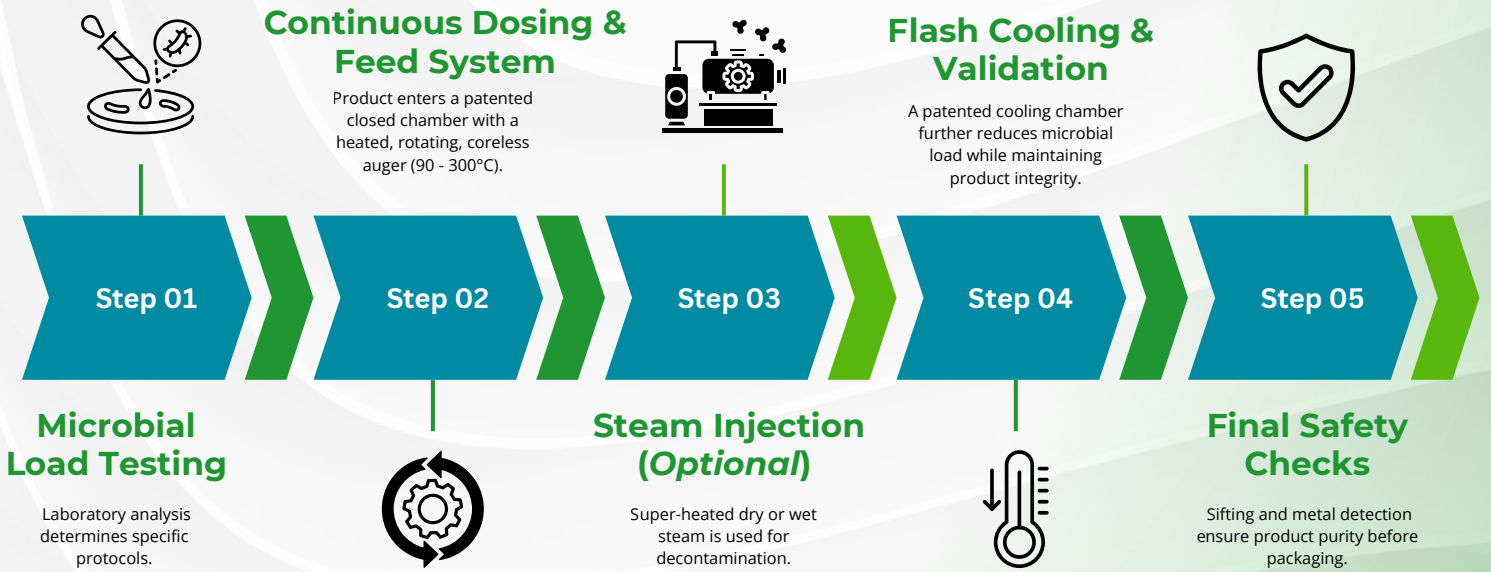
Processing Capacities & Capabilities

Capacity	270 - 500 kg/hour (varies by product)
Treatment Options	Roasting, Blanching, Sterilization, Drying
Ingredient Forms	Powder, Pieces, Slices, Whole, Leaves, Crushed, Chopped, Cut
Inline Quality Checks	Sifter, REM, Metal Detector



Capacities
270 to 500 kg/hour

Our Process

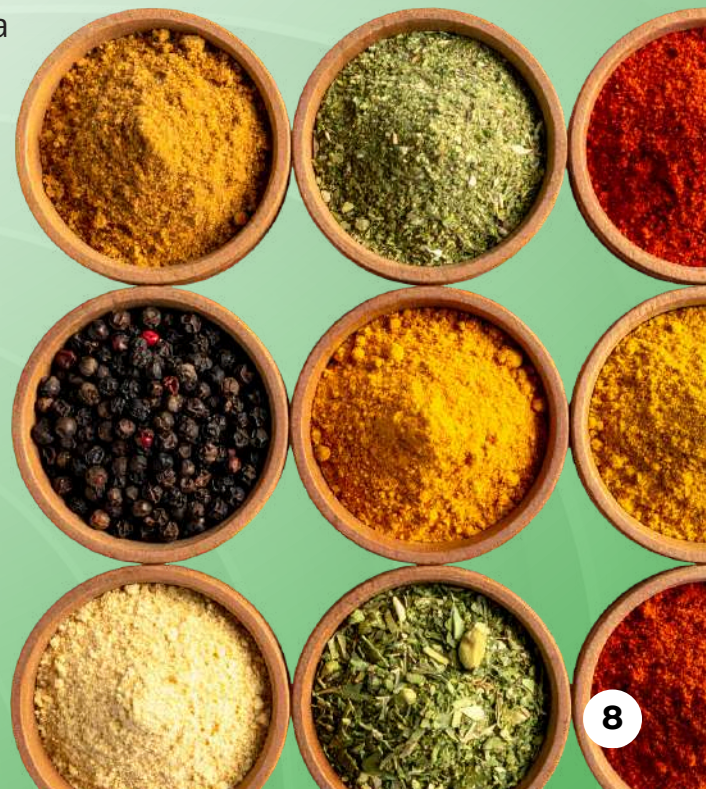


Value Added Services

- Repackaging Options - 15kg to 500kg
- Magnetic Sifting & Screening
- Comprehensive Safety Certifications
- Gluten-Free & Low-Allergen Processing in Nevada
- No Chemicals, No Radiation, All Natural Processing

Available Services

- Microbiological & Pathogen Analysis
- Quality Assurance Testing
- Customized Treatment Solutions



Bioactive - BATCH STERILIZATION

CAPABILITIES

- Steam sterilization for spices, herbs, nutraceuticals & botanicals
- PLC-controlled automated batch processing
- Uniform heating, holding & cooling
- Moisture & water activity control
- Traceability & validation ready
- MOQ can be **100 kg per Batch**





KEY FEATURES

- Third-Party Validation from Novolyze and Other Labs.
- Faster batch cycle time
- Reduced moisture pickup
- Improved grindability
- Lower cooling time
- Higher productivity per shift

BENEFITS

- 100% natural steam process
- Minimum 5-log to 6 Log pathogen reduction
- Better shelf life & color retention
- Lower operating cost per kg
- Export & global compliance ready

Reno	400 to 500 Tons per Month
NJ	400 to 500 Tons per Month



APPLICATIONS

- Spices
- Herbs
- Seeds
- Nutraceuticals
- Food ingredients





Milling

Precision Milling with Sterility & Bioactivity in Mind

At **Bioactive Services & Safe Sterilization**, we specialize in the **safe and precise milling** of powdered ingredients while ensuring sterility and preserving functional properties.

Our advanced technology and state-of-the-art facilities guarantee consistent particle size, enhanced solubility, and optimized texture, meeting the highest industry standards.



Toll blending

We offer Toll blending for dry or powdered ingredients.

We specialize in providing customized powdered ingredient blending services tailored to meet the unique needs of your business. Our state-of-the-art facilities and expert team ensure the highest quality standards and efficiency for every blend.

Capabilities

Capacity:	Batch/ Day
250Kg	2*
1000kg	2*
5000kg	1-2*

- *Depending on product density*

✓ Repacking Options (no additional cost)

- Recyclable Cardboard Boxes: 25 kg minimums
- Recyclable Paper Sacks: 25 kg minimums
- Polyethylene Super Sacks: 500 kg maximums



Packaging

powder packaging solutions



Comprehensive Packaging Solutions for Your Business

Our Packaging Capabilities

Jar Filling Services

Jar Sizes

- 100 grams - 900 grams

Jar Filling Specifications

- Fill Capacity: Minimum 100 grams
- Product Type: Powder
- Sealing: Induction sealing for secure, tamper-proof packaging

Production Capacity

- Semi-Automated Line: Up to 10,000 jars per day

Pouch Filling Services

Pouch Filling Specifications

- Pouch Sizes: Customizable to your requirements
- Product Type: Powder
- Sealing Options: Heat sealing for secure and durable closures
- Capacity Per Pouch: Adjustable based on product volume

Production Capacity

- Semi-Automated Line: Up to 10,000 pouches per day

Packaging Options

- Twin Pack
- Pouch Filling
- Stick Packs

Custom Solutions

- Single, twin, and multi-pack configurations
- Organic and nutraceutical-grade packaging
- Fully scalable for small and large orders alike



Smart Pack Line

Stick pack packaging system

Smart Packaging for Growing Brands

Upgrade your powder packaging operations with the Bioactive Smart Pack Line – Stick Pack Packaging System, engineered for high-efficiency production of nutraceuticals, spices, and functional powders.



CAPACITY & PERFORMANCE

Up to 60,000 Stick Packs per Day

Filling Range: 1g – 15g

Bag Width: 20–140 mm

Bag Length: 30–175 mm

SS304 Hygienic Stainless Steel
Construction

PLC Smart Control with Touch Screen
Interface

Dual Machine High Output
Configuration Available

COMPLETE SUPPORT SERVICES

- Label Design Support
- Ingredient Embossing
- Organic & Other Certification Assistance
- Custom Film Supply as per Client Requirement
- Three Different Closing Seal Patterns
- Automated Counting & Carton Packing
- Customer Proprietary Carton Designs

Designed for accuracy, speed, and consistent sealing quality — ensuring every stick pack meets industry standards.



We Are Certified

At Bioactive Services, we are committed to maintaining the highest standards in food processing and powdered ingredient manufacturing. Our affiliations with leading industry organizations reflect our dedication to quality, safety, sustainability, and innovation. These partnerships ensure that we stay ahead of industry trends, comply with global regulations, and provide high-quality, certified ingredients to our customers.



Contact Information



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