

# Performance Ingredients



## BI Nutraceuticals: The Leader In Performance Ingredients

BI Nutraceuticals is the leading global, full-service supplier of dietary supplement and functional food ingredients including whole herb powders and teas, standardized and drug ratio extracts, vitamins, minerals, amino acids, custom blends, Drum-to-Hopper (D-T-H) formulations and granular ingredients.

Our cGMP compliant granulation facility in Islandia, New York, is dedicated to processing raw material ingredients to meet all of your formulation needs. The 38,000 square foot facility features a fully equipped Product Development Laboratory and capabilities ranging from a multitude of high shear solvent capable wet granulators to oven driers, extensive dry roller compaction capacity, high throughput hammer mills and oscillating blenders. Most notably, new fluid agglomerators were acquired giving us all major granulation processes under one roof.

Our extensive granulation capability allows us to modify the functionality of the ingredients as customers require. Many of the benefits of particle engineered raw materials result from physical property enhancements which include modifications in density, particle size, flow, solubility, compressibility, taste, release of actives and content uniformity.

### Benefits of Granulations

- Formulation versatility
- Improved yields/higher processing speeds
- Small dosage size
- Higher content of actives
- Active dose consistency
- Better compressibility
- Higher density

### Common Applications for Granulated Raw Materials

- Solid Dosages - tablets, capsules, softgels
- Food Fortification - premixes, custom blends
- Coatings - taste masking, microencapsulations, enhanced stability, modified release
- Beverages - instant teas and powders for reconstitution

### BI Nutraceuticals, A Name You Know and Trust

All of our granular products undergo the same rigorous QC scrutiny that you have come to expect from BI. Our main QC Laboratory in Long Beach, California, audits our domestic and international vendors, oversees manufacturing in all our plants, conducts required testing on all batches and issues final product Certificates of Analysis. This commitment to quality and cGMP standards guarantees that you can use our products with an unparalleled level of confidence.

### DC Grade Granulations

BI's Directly Compressible nutrients are wet granulated or roller compacted using a variety of binders such as HPMC, HPC, PVP, Gelatin, Guar Gum and Acacia. Additionally, our steam jacketed granulators also allow us to manufacture lipid-based or wax-based hot-melt granulations.

### Triturations

BI utilizes a wide range of carriers such as DiCalcium Phosphate, Maltodextrin, MCC, Dextrose, and Mannitol to triturate active constituents to suit the properties of your finished product. Special consideration is given to the desired characteristics such as solubility, particle size or special label claims to ensure good content uniformity, precise dosage delivery and excellent functionality.

### D-T-H BLENDS

We provide complete blends of the active ingredients, binders and excipients such as fillers, disintegrants and lubricants that are required for the manufacture of high quality tablets. There is no need to preprocess BI's D-T-H blends before manufacture of the finished tablets.



Nutraceuticals

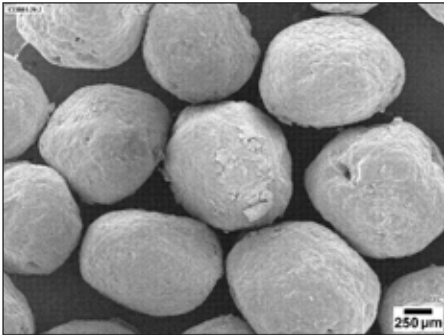
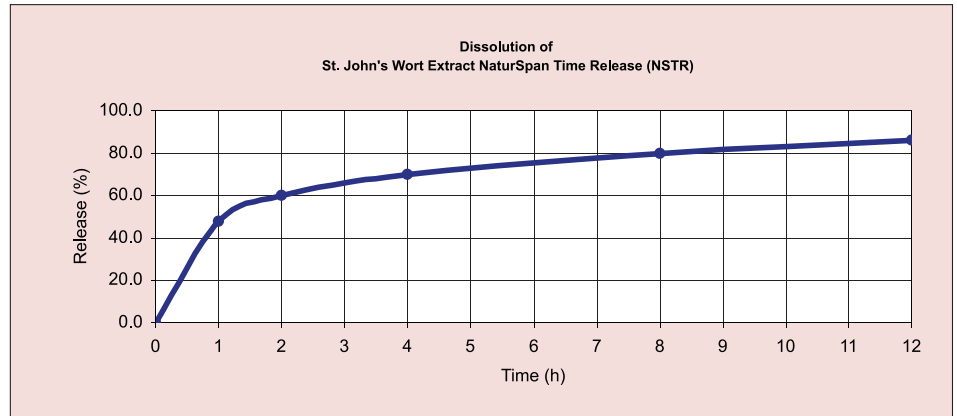
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For more information, or to place an order call 310-669-2100

## Modified Release Formulations

BI's Delayed Release or Modified Release Formulations not only allow you to offer products that are more therapeutically effective with a greater record of consumer compliance, but also provide an excellent point of differentiation against the competition.



Picture compliments of Aqualon

## PRODUCT LIST

### Triturations

Our line of Triturations contain one of the following excipients, DCP, Maltodextrin or Mannitol as the carrier.

- Biotin 1% or 5%
- Folic Acid 5% or 10%
- Vitamin B12 0.1%, 1% or 5%
- Vitamin B12 1% on Resin
- Vitamin K1, 1%

### DC Grade Granulations

- Alpha Lipoic Acid
- Ascorbic Acid DC 97%
- Branched Chain Amino Acid Granulations
- Caffeine Granular
- Cocoa Theobromine 10% or 12%
- Creatine Ethyl Ester or Alpha Keto Glutarate
- Curcumin, Turmeric Granulations
- Glucosamine HCL, Potassium or Sulfate 95%
- Green Tea Granulation (*all strengths*)
- Guarana or Kola Nut Granulations (*all strengths*)
- L-Arginine HCL
- L-Arginine Alpha Keto Glutarate
- Mannitol Granular
- Niacinamide Ascorbate
- Niacinamide Granular
- Pyridoxine HCL 97%
- Quercetin Granular
- Riboflavin Granular
- R-Lipoic Acid Stabilized
- Vitamin E Succinate Granular
- Whey Granulations (*all strengths*)
- Other botanicals powders, extracts...

### Modified Release Formulations

- NaturSpan® Ginkgo Biloba Leaves PE, 16% / 4%
- NaturSpan® Milk Thistle Seed PE, 45% Silymarin
- NaturSpan® St. John's Wort PE, 0.2% Hypericin

### Premixes/Custom Blends

BI provides ingredients and custom blends to a multitude of industries including food and beverage, dietary supplement, sports nutrition, and pharmaceuticals. All blends are custom made to unique specifications.

**Our product list is always growing.  
If you don't see what you're looking for here,  
please contact our customer service  
department at 310-669-2100.**

**For more information, or to place an order call 310-669-2100**

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