

# ABOUT PENTABIOTIC SERIES

## **What is PENTABIOTIC?**

The word "penta" comes from the Greek pénte, meaning "five." Pentabiotic is a combination of 5 types of active ingredients - prebiotics, probiotics, postbiotics, parabiotics and active pharmaceutical ingredients.

## **What is prebiotic?**

Prebiotics are non-digestible fibers that promote the growth of beneficial bacteria in the gut. They can be found in foods like garlic, onions, bananas, and whole grains. Prebiotics help improve digestion and overall gut health by nourishing the good bacteria in our intestines. Including prebiotic-rich foods or supplements in the diet can also support a healthy immune system and reduce inflammation in the body.

## **What is probiotic?**

Probiotics are live bacteria and yeasts that are good for human health, especially the digestive system. They are often referred to as "good" or "friendly" bacteria because they help keep your gut healthy. Probiotics can be found in certain foods, such as yogurt, kefir, and sauerkraut, as well as in supplement form. Research has shown that probiotics may help with various digestive issues and boost the immune system.

## **What is postbiotic?**

Postbiotics are non-viable bacterial products or metabolic byproducts that have beneficial effects on the host. These compounds can include short-chain fatty acids, enzymes, and peptides that contribute to overall gut health and immune function. Postbiotics are gaining attention in the field of gut health and are believed to play a crucial role in maintaining a healthy microbiome. Research suggests that postbiotics can help reduce inflammation, improve digestion, and support the body's natural defense mechanisms.

## **What is parabiotic?**

Parabiotics are also referred to as paraprobiotics, ghost probiotics, or inactivated probiotics. It is a term used to describe inactivated microbial cells, either intact or broken, that belong to the cells of probiotics or other beneficial microorganisms. These inactivated cells still have beneficial effects on the host by interacting with the immune system and promoting a healthy gut microbiome. Parabiotics are gaining attention for their potential therapeutic applications in various health conditions. Research on parabiotics has shown promising results in areas such as improving gut health, reducing inflammation, and enhancing immune function. The use of parabiotics may offer a new approach to supporting overall health and wellness through the manipulation of the gut microbiome.

## **What is liposomal nanotechnology?**

Liposomes are spherical vesicles characterized by a bilayer of lipids with an internal aqueous cavity, being one of the most successful drug delivery systems applying nanotechnology to potentiate the therapeutic efficacy and reduce toxicities of conventional medicines.

Compared to other liposomes, nanoliposomes provide more surface area and have the potential to increase solubility, enhance bioavailability, improve controlled release and enable precision targeting of the encapsulated material to a greater extent.



# PENTABIOTIC PB1

## MAIN APPLICATION:

**IMMUNE SYSTEM** - immunomodulation, viral infections, allergies

## INGREDIENTS:

### Prebiotics

- 300 mg of fructooligosaccharides (FOS)

### Probiotics - 10 billion CFU blend

- Bifidobacterium: bifidum, breve, longum  
- Lactobacillus: acidophilus, casei, fermentum, plantarum, reuteri, rhamnosus

### Postbiotics and parabiotics

- 100 mg proprietary blend of postbiotics and parabiotics

### Active pharmaceutical ingredients (300 mg of proprietary blend)

- Liposomal astragalus extract  
- Liposomal Korean ginseng extract  
- Liposomal Siberian ginseng extract  
- Phytosomal Black elderberry extract  
- Phytosomal Echinacea extract

#### AVAILABLE FORMS

**CAPSULES #00**

#### PACKING FORMS

**15 CAPSULES | 30 CAPSULES**



# PENTABIOTIC PB2

## MAIN APPLICATION:

**GASTRO-INTESTINAL SYSTEM** - IBS, bloating, colic, diarrhea, constipation

## INGREDIENTS:

### Prebiotics

- 300 mg of fructooligosaccharides (FOS)

### Probiotics - 10 billion CFU blend

- Bifidobacterium: bifidum, lactis, longum
- Lactobacillus: acidophilus, casei, plantarum, rhamnosus
- Saccharomyces boulardii

### Postbiotics and parabiotics

- 100 mg proprietary blend of postbiotics and parabiotics

### Active pharmaceutical ingredients (300 mg of proprietary blend)

- Liposomal berberine
- Liposomal ginger extract
- Liposomal hesperidin
- Liposomal zinc
- Phytosomal Cinnamon extract
- Phytosomal Dandelion extract
- Phytosomal Peony extract

#### AVAILABLE FORMS

**CAPSULES #00**

#### PACKING FORMS

**15 CAPSULES | 30 CAPSULES**



# PENTABIOTIC PB3

## MAIN APPLICATION:

**METABOLIC** - cholesterol, obesity, blood pressure, diabetes

## INGREDIENTS:

### Prebiotics

- 300 mg of fructooligosaccharides (FOS)

### Probiotics - 10 billion CFU blend

- Bifidobacterium: adolescentis, lactis  
- Lactobacillus: acidophilus, casei, johnsonii, plantarum, reuteri, rhamnosus

### Postbiotics and parabiotics

- 100 mg proprietary blend of postbiotics and parabiotics

### Active pharmaceutical ingredients (300 mg of proprietary blend)

- Liposomal astragalus extract  
- Liposomal berberine  
- Liposomal curcumin from turmeric extract  
- Liposomal green tea extract  
- Phytosomal Bitter cucumber extract  
- Phytosomal Dandelion extract  
- Phytosomal Gymnema sylvestre extract  
- Phytosomal Peony extract

#### AVAILABLE FORMS

**CAPSULES #00**

#### PACKING FORMS

**15 CAPSULES | 30 CAPSULES**



# PENTABIOTIC PB4

## MAIN APPLICATION:

**DETOX** - organophosphorus pesticides, mycotoxins, aflatoxins, heavy metals

## INGREDIENTS:

### Prebiotics

- 300 mg of fructooligosaccharides (FOS)

### Probiotics - 10 billion CFU blend

- Bifidobacterium: bifidum, breve, lactis, longum
- Lactobacillus: acidophilus, casei, fermentum, johnsonii, plantarum, reuteri, rhamnosus
- Saccharomyces boulardii

### Postbiotics and parabiotics

- 100 mg proprietary blend of postbiotics and parabiotics

### Active pharmaceutical ingredients (300 mg of proprietary blend)

- Liposomal astragalus extract
- Liposomal silymarin
- Phytosomal Artichoke extract
- Phytosomal Cranberry extract
- Phytosomal Dandelion extract

#### AVAILABLE FORMS

**CAPSULES #00**

#### PACKING FORMS

**15 CAPSULES | 30 CAPSULES**