



MICROBIAL SUPPORT*

Pharmax is an industry and science leader that incorporates the latest evidence-based research and innovation to produce plant compounds that safely and effectively promote optimal microbial balance.*



WHERE
NUTRITIONAL
SCIENCE COMES
TO LIFE.

*These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure or prevent any disease.

Clear Four

A total of eight active ingredients combine to promote intestinal balance, support microbial balance in the small and large intestine, and maintain intestinal mucosal integrity and good microflora. A single serrated strip with three capsules and one tablet delivers the daily dose, makes it easy to use and improves patient compliance.*

1 Promote intestinal balance* Utilizing delayed release allicin

Why allicin? Allicin is a wide spectrum plant-based active compound¹ that has a minimal effect on the beneficial lactic acid flora of the gastrointestinal (G.I.) tract. The following is a visual example through electron micrographs demonstrating the effectiveness of allicin, *in vitro*, on cells of *E. Coli* (effectiveness can be visually measured by the amount of dissipation of *E. Coli*).*



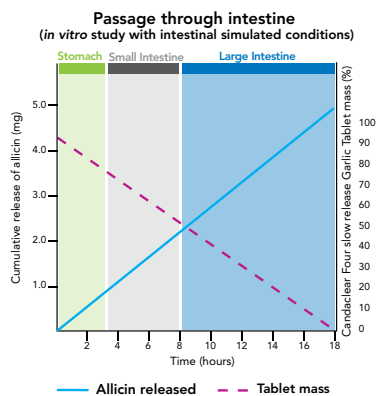
No Allicin



Allicin – 15ppm

Isolating allicin. Since allicin is formed instantaneously when crushing a garlic clove due to the interaction of an enzyme, the allicin in Clear Four incorporates the CYRO-dri process, freeze-drying without heat, to capture and create a concentrated version of the prime active allicin component.

Delayed release allicin in Clear Four. Allicin is rapidly absorbed from the small intestine with little being detected past the proximal ileum. Moreover, once absorbed, allicin is quickly converted by the liver into allyl sulphides which have significantly reduced bio activity.



In addition, to exert any activity in the gut, they would need to pass back from the bloodstream into the intestinal lumen – a process which is at best uncertain. Providing allicin in a delayed-release format ensures continuous release over an 18-hour period, as shown during *in vitro* studies.*

2 Support microbial balance in the small intestine* Utilizing allicin with cinnamon

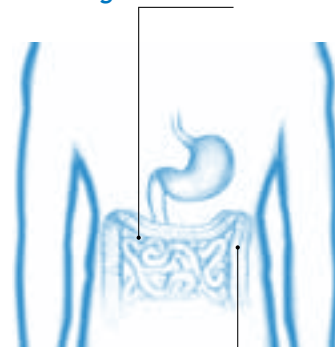
Why cinnamon? Oil of cinnamon bark is calming to the gastro-intestinal tract and possesses antiseptic properties. Cinnamaldehydes (the major components of cinnamon bark oil) have the strongest microbial balancing activity of all of the common volatile oils. The pre-emulsified, freeze-dried cinnamaldehyde powder concentrate is very gut active.*

3 Support microbial balance in the large intestine* Utilizing allicin with caprylates

Why caprylic acid? When presented as calcium and magnesium salts, caprylic acid supports microbial balance, bypassing the small intestine and splitting into free caprylic acid and magnesium/calcium ions by the action of the microflora in the large intestine.*

Plant bioactives target intestinal balance* (*in vitro* studies with intestinal simulated conditions)

Allicin with cinnamaldehydes
Targets the small intestine



Allicin with caprylic acid
Targets the large intestine

4 Maintain intestinal mucosal integrity* Utilizing high-potency probiotics with nutrients

Why L-glutamine and N-acetyl glucosamine?

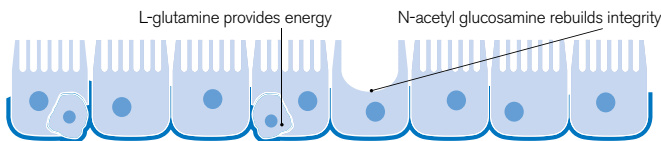
The use of allicin, cinnamon and caprylates provides immediate stimulus to the maintenance of mucosal integrity. To augment this process, Clear Four contains both L-glutamine, as the preferred energy source of mucosal cells of the small intestine, and N-acetyl glucosamine to provide the 'glue' which binds epithelial cells together and helps prevent 'leakiness' through the epithelial layer.*

Restoration of mucosal integrity*

Before Clear Four



With Clear Four



Why high-potency probiotics? These probiotic strains are research-driven and evaluated in randomized, double-blind, placebo-controlled human trials at 25 billion CFU. Our unique manufacturing process helps maintain high potency probiotic stability in combination with the complex nutrient blend. Manufacturing allows for ambient temperature (59-86°F) storage and two-year shelf-life without compromising product stability and still meet or exceed label claims.*

CLEAR FOUR

Dietary Supplement

Probiotic and herbs to support gastrointestinal health*

- Provides 25 billion CFU of probiotic strains
- Provides cinnamon and allicin, which may help to promote a healthy gut flora composition*
- Promotes intestinal barrier function using a combination of beta-carotene and L-glutamine*

Clear Four is a unique combination of human-sourced probiotics, allicin, cinnamon, N-acetyl glucosamine (NAG), L-glutamine, and beta-carotene. The probiotic formulation used in Clear Four contains 25 billion CFU of human-sourced probiotics that support optimal gastrointestinal health. Allicin and cinnamon help to maintain a natural healthy gut flora. Studies indicate that L-glutamine helps to maintain normal intestinal barrier function by supporting intestinal barrier permeability.*

delayed release allicin

SUPPLEMENT FACTS

Servings 1 Tablet

Amount per serving	%DV
Garlic (<i>Allium sativum</i>) Bulb (providing 10 mg thiosulfates and 4.5 mg allicin)	500 mg †

† % Daily Value (DV) not established

Other ingredients: Hypromellose, dibasic calcium phosphate dihydrate, cellulose, magnesium stearate, silica, titanium dioxide, glycerin

allicin with cinnamon

SUPPLEMENT FACTS

Servings 1 Capsule

Amount per serving	%DV
Garlic (<i>Allium sativum</i>) Bulb (providing 10 mg thiosulfates and 4.5 mg allicin)	500 mg †
Cinnamon (<i>Cinnamomum verum</i>) Bark Oil (providing 40 mg cinnamaldehyde)	66 mg †
Cinnamon (<i>Cinnamomum verum</i>) Bark	30 mg †

† % Daily Value (DV) not established

Other ingredients: Hypromellose, silica, magnesium stearate

allicin with caprylates

SUPPLEMENT FACTS

Servings 1 Capsule

Amount per serving	%DV
Garlic (<i>Allium sativum</i>) Bulb (providing 4 mg thiosulfates and 1.8 mg allicin)	200 mg †
Cinnamon (<i>Cinnamomum verum</i>) Bark Oil (providing 20 mg cinnamaldehyde)	33 mg †
Magnesium caprylate	200 mg †
Calcium caprylate	100 mg †

† % Daily Value (DV) not established

Other ingredients: Hypromellose, silica, magnesium stearate

probiotic with nutrients

SUPPLEMENT FACTS

Servings 1 Capsule

Amount per serving	%DV
HLC Consortium 25 billion CFU †	
<i>Lactobacillus acidophilus</i> (CUL-60 & 21)	
<i>Bifidobacterium animalis</i> subsp. <i>lactis</i> (CUL-34) & <i>Bifidobacterium bifidum</i> (CUL-20)	
L-Glutamine	400 mg †
N-Acetyl Glucosamine (NAG) (from exoskeleton of shrimp/ crab)	200 mg †
Beta-carotene	2 mg †

† % Daily Value (DV) not established

Other ingredients: Hypromellose, silica, magnesium stearate
Contains: Crustacean shellfish (exoskeleton of shrimp / crab)

Recommended intake

Adults: One serrated strip, containing three capsules and one tablet, taken once daily with a meal, or as professionally directed.

Pack Size

90 Capsules + 30 Tablets
(30 strips of 3 capsules and 1 tablet)

Product Code

SC51-6



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ALLI-CINN

Dietary Supplement

Combination of freeze-dried garlic and cinnamon oil extract

- Contains ingredients traditionally used to maintain optimal cardiovascular health*
- Contains ingredients traditionally used to support already healthy blood lipid levels in adults*
- Provides 1000 mg of garlic clove and 80 mg of cinnamaldehyde per daily serving

Alli-Cinn is a blend of garlic and cinnamon that is traditionally used in herbal medicine to support optimal cardiovascular health. The main bioactive compound in garlic is allicin. When broken down, this sulfur-containing compound is responsible for the characteristic odor of garlic. Recent research indicates that long-term garlic consumption may support already healthy total cholesterol levels. Garlic may also help maintain already normal lipid levels. In a randomized, placebo-controlled trial involving 150 adults, daily supplementation with 800 mg of garlic powder capsules for six weeks supported total and LDL cholesterol levels already within a healthy range.*

SUPPLEMENT FACTS

Serving Size 1 Capsule
Servings Per Container 60

Amount per serving		%DV
Freeze dried garlic (<i>Allium sativum</i>) clove	500 mg	†
Freeze dried cinnamon (<i>Cinnamomum verum</i>) bark oil extract (20% cinnamaldehydes)	200 mg	†

† % Daily Value (DV) not established

Other ingredients: Hypromellose, silica, vegetable magnesium stearate

Recommended intake

Adults: One capsule taken twice daily with meals or as professionally directed.

Pack Size

60 vegetable capsules

Product Code

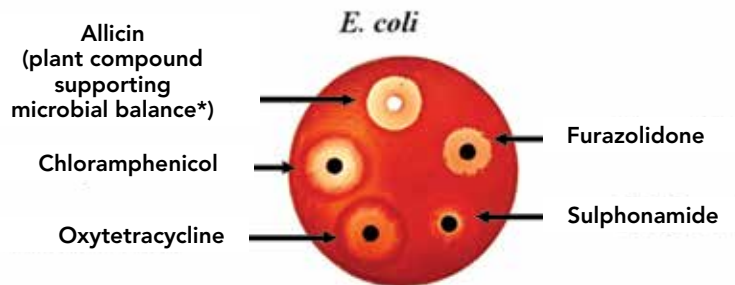
PA01-60



Plant compounds supporting microbial balance*

The visual on the right is an example demonstrating the *in-vitro* activity of Allicin, a broad-spectrum plant compound supporting microbial balance. The petri dish contains a sample of *E. Coli*. Effect can be visualized and quantified by the amount of clearance around inhibitory concentrations of the plant compound.*

The results of other similar experiments, which use different organisms, also demonstrate the general effects of plant compounds supporting microbial balance (File on record, Pharmax).*



BROAD SPECTRUM COMPLEX

Dietary Supplement

Complex botanical formulation

- Contains a blend of barberry, garlic, goldenseal and wormwood
- Includes ingredients traditionally used to support gastrointestinal health and digestive function*
- Formulated with herbs traditionally used to support immune function*

Broad Spectrum Complex contains a unique combination of oils and herbal extracts, including barberry, freeze-dried garlic, goldenseal and wormwood, which have traditionally been used to support digestive and immune health.*

SUPPLEMENT FACTS

Serving Size 1 Capsule
Servings Per Container 60

Amount per serving		%DV
Barberry (<i>Berberis vulgaris</i>) root bark std. extract (6% berberine)	200 mg	†
Freeze-dried garlic (<i>Allium sativum</i>) clove	100 mg	†
Goldenseal (<i>Hydrastis canadensis</i>) root std. extract (5% alkaloids)	50 mg	†
Wormwood (<i>Artemisia absinthium</i>) leaf/flowering tops oil	16.7 mg	†

† % Daily Value (DV) not established

Other ingredients: Hypromellose, silica, vegetable magnesium stearate

Recommended intake

Adults: Take one capsule two times daily with meals or as professionally directed.

Pack Size

60 vegetable capsules

Product Code

PA04-60



CAPRYLATE COMPLEX

Dietary Supplement

Caprylic acid formulation

- Promotes a healthy microflora*
- Provides 1500 mg of caprylic acid per daily serving, bound to calcium and magnesium

Caprylate Complex contains 500 mg of caprylic acid, 50 mg of calcium, and 20 mg of magnesium per capsule. Caprylic acid may promote a healthy microflora balance, while maintaining the body's existing population of beneficial intestinal bacteria.*

SUPPLEMENT FACTS

Serving Size 1 Capsule
Servings Per Container 90

Amount per serving		%DV
Calories	5	
Calories from Fat	5	
Total Fat	0.5 g	1%◆
Calcium	45 mg	5%
Magnesium	20 mg	5%
Calcium caprylate (providing calcium)	446 mg	†
Magnesium caprylate (providing magnesium)	290 mg	†
Total caprylic acid	500 mg	†

◆ % Daily Values (DV) are based on a 2,000 calorie diet
† % Daily Value (DV) not established

Other ingredients: Hypromellose, cellulose, silica, vegetable magnesium stearate

Recommended intake

Adults and Children (6 years and older): One capsule taken three times daily with meals or as professionally directed.

Pack Size

90 vegetable capsules

Product Code

SC24-90



GARLIC FREEZE DRIED

Dietary Supplement

Freeze-dried garlic

- Formulated with ingredients traditionally used to support already healthy blood lipid levels*
- Contains ingredients traditionally used to maintain optimal cardiovascular health*

Garlic Freeze Dried provides 700 mg of garlic clove (*Allium sativum*) per day. Garlic is traditionally used in Herbal Medicine to support healthy upper respiratory tract health and to promote already normal blood lipid levels. It has also been used traditionally to help maintain cardiovascular health in adults.*

SUPPLEMENT FACTS

Serving Size 1 Capsule
Servings Per Container 90

Amount per serving		%DV
Freeze dried garlic (<i>Allium sativum</i>) clove	700 mg	†

† % Daily Value (DV) not established

Other ingredients: Hypromellose, silica, vegetable magnesium stearate

Recommended intake

Adults: One capsule taken daily with a meal or as professionally directed.

Pack Size

90 vegetable capsules

Product Code

PA02-90



INTESTIBAL

Dietary Supplement

Complex botanical formulation

- Contains a proprietary blend of oregano, clove, ginger, wormwood and evening primrose oils
- Includes ingredients traditionally used to support digestive and gastrointestinal health*
- Provides ingredients traditionally used to support skin and immune health*

IntestiBal contains a unique blend of oils that have traditionally been used to support optimal digestive and intestinal health. Studies suggest that oil of oregano (*Origanum vulgare*) supports optimal gastrointestinal function. One human study indicates that ginger may support normal gastric motility. The seeds of the evening primrose are rich in omega-6 essential fatty acids (EFAs), including linoleic acid (LA) and gamma-linolenic acid (GLA). Dietary omega-3 and omega-6 EFAs may help support immune function. Evening primrose seed oil supplementation in healthy adults supports skin hydration, elasticity, and firmness.*

SUPPLEMENT FACTS

Serving Size 1 Capsule
Servings Per Container 60

Amount per serving		%DV
Oregano (<i>Origanum vulgare</i>) Flowering Tops Essential Oil Std. Extract (70% Carvacrol)	95 mg	†
Clove (<i>Syzygium aromaticum</i>) Leaf Essential Oil	45 mg	†
Ginger (<i>Zingiber officinale</i>) Root Essential Oil	45 mg	†
Wormwood (<i>Artemisia absinthium</i>) Leaf Essential Oil	45 mg	†
Evening Primrose (<i>Oenothera biennis</i>) Seed Oil	20 mg	†

† % Daily Value (DV) not established

Other ingredients: Hypromellose, silica, magnesium stearate

Recommended intake

Adults: One capsule taken 1-2 times daily with meals, a few hours before or after taking supplements containing iron, zinc, calcium or copper, or as professionally directed.

Pack Size

60 vegetable capsules

Product Code

PA03-60

