

2011 PDR LISTING

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i26®
Dietary Supplement
Hyperimmune Egg (HIE) Powder



DESCRIPTION

i26 (“polyvalent hyperimmune” egg) is hyperimmunized whole egg protein (“HIE”).¹ Along with the generation of specific antibodies, increased levels of bioactive molecules are produced.^{2,3} In vitro, in vivo, and human trials, suggest that the naturally-occurring immune components in hyperimmune egg are utilized by the body to help it achieve immune homeostasis. The biological factors in i26 help the body maintain immune homeostasis by partnering to help it modulate immunological responses, especially those of an autoimmune or inflammatory nature.

BACKGROUND

Upon oral administration of hyperimmune egg, a wide range of immune components, both of a specific and non-specific nature, are passively transferred to the recipient. Although the intact immunoglobulins are confined to the lumen, other smaller, bioactive immune components may work systemically. This may occur: a) indirectly by activating cells in the GALT which then migrate with the appropriate message, or b) by directly crossing the GI barrier and circulating through out the body to help it appropriately modulate immunological reactions.

Studies:

Joint Comfort and Flexibility

An open-label clinical trial conducted at The Hospital for Special Surgery in New York, NYC, demonstrated that the daily consumption of 4.5g of HIE resulted in statistically significant changes in the daily aches and discomfort associated with daily life.⁴

Combining hyperimmune egg with certain forms of glucosamine-HCl results in a synergistic joint support effect.⁵

Circulatory and Cardiovascular Health

Hyperimmune egg has been demonstrated to help the body control several key indices of cardiovascular health both in vivo, and in a double-blind, placebo-controlled human trial.^{6,7}

Gastrointestinal Health

In vivo, pre-administration of hyperimmune egg significantly helps the body support healthy digestive function⁸ and intestinal transit.⁹ It also appears to help maintain overall health of the gastrointestinal lining.¹⁰

Maintaining Healthy Weight in Populations At Risk

Hyperimmune egg helps maintain or increase lean muscle mass in individuals experiencing involuntary weight changes.^{11,12}

Quality of Life

Subjects with poor quality of life, that consumed consuming 6.0g of hyperimmune egg showed marked changes in energy, weight, appetite, sleep quality, gastrointestinal and pulmonary areas as well as blood counts.¹¹⁻¹³

Enhanced Athletic Performance, Stamina, Recovery

In a randomized, double-blind, placebo-controlled university trial, subjects utilizing 13.5g daily of hyperimmune egg experienced greater athletic performance as measured by endurance, recovery and strength. Hyperimmune egg appeared to help the body lower intrinsic heart rates, and stimulate muscle growth and repair resulting in better performance. Subjects reported higher levels of both anaerobic and aerobic performance, with less effort when using hyperimmune egg.^{14,15} Professional athletes report similar findings.

INDICATIONS AND USAGE

i26 is defined under the Dietary Supplements Health and Education Act (DSHEA) as a dietary supplement and as such is not intended to diagnose, prevent, treat, or cure disease. An independent panel of experts has conferred self-affirmed GRAS (“generally recognized as safe”) status to hyperimmune egg. The FDA has issued a Food Master File Number for this ingredient.

Statements as to function have not been evaluated by the Food and Drug Administration but the following structure function claims for i26 have been submitted to the Agency:

Balances and supports the immune system

Helps the body maintain:

digestive tract health

flexible and healthy joints
healthy levels of cholesterol
cardiovascular function and healthy circulatory systems
Helps increase energy levels
Helps enhance a sense of well-being

Note: “Hyperimmune” egg may be used concomitantly with prescription medications.

CONTRAINDICATION

“Hyperimmune” egg is contraindicated in individuals with a history of extreme hypersensitivity, or life-threatening allergy, to orally administered egg.

PRECAUTIONS

Although reactions are rare, it is prudent for individuals with “sensitive” digestive systems to introduce hyperimmune gradually. Start with 0.5g (1/8 of a scoop) of i26/day for 3-4 days successively and double the amount every few days until desired dosage is achieved. Diabetics may wish to monitor their blood glucose levels more frequently while introducing hyperimmune egg into their diets, since some individuals appear to reach glucose homeostasis rapidly as they start to approach immune homeostasis.

ADVERSE REACTIONS

Adverse reactions rarely occur. In two randomized double-blind, placebo-controlled trials (one with the US Military, the other at a University) the hyperimmune egg was well-tolerated. There was 82% compliance in a US Military study and 100% compliance in the University study.

ADMINISTRATION

Recommended servings are 4.5g-9g/daily for maintenance, more as desired. Some of the larger bioactive immune components in hyperimmune egg are heat-labile, but other than high temperature foods or beverages, HIE can be added to almost all foods or beverages (e.g., puddings, yogurts, salads, juices, ice cream, etc.)

The equivalent of one serving (4.5g) of hyperimmune egg is found in: one scoop of i26, 9 capsules, 3 Chewables, 1 scoop of i26 COMPLETE Support, or 2 scoops of i26 FIT.

HOW SUPPLIED

- i26 - pure hyperimmune egg powder (31 servings)
- i26 Capsules – pure hyperimmune egg in capsules (15 servings)
- i26 Chewables- hyperimmune egg in flavored tablets (vanilla, banana) (15 servings)
- i26 COMPLETE Support – hyperimmune egg with vitamins and minerals (chocolate, strawberry, vanilla) (31 servings) [to be reconstituted with liquid]

- i26 FIT – hyperimmune egg with protein, fiber, vitamins and minerals (15 servings)
[to be reconstituted with liquid, preferably skim milk]

Stability and Storage

Store in a dry cool location with the lid tightly shut.

REFERENCES

Hens are stimulated multiple times with more than 26 whole inactivated bacteria of human interest including Salmonella, Staphylococcus, Streptococcus, Escherichia coli, Klebsiella pneumoniae, Pseudomonas, Proteus, Propionibacterium acnes, and Hemophilus influenzae.

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US Patent # 7,083,809 Purified cytokine inhibitory factor

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US Patent # 5,772,999 Method of Preventing, Countering or Reducing NSAID-Induced Gastrointestinal Damage by Administering Milk or Egg Products from Hyperimmunized Animals

Ambekar R Chungi V [Hyperimmune Egg: Its Ability to Maintain Weight and Lean Muscle Mass in Individuals with Cachexia](#) 1998 unpublished

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Scheett TM, et al. [Increased Muscular Strength and Enhanced Muscle Repair with Hyperimmune Egg Protein Supplementation](#) 2007 National Strength Cond Assoc Atlanta, GA