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La Haye et al.

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[54] **COMPOSITION AND METHOD FOR COMBATING MACULAR DEGENERATION**

[56] **References Cited**

U.S. PATENT DOCUMENTS

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4,002,758 1/1977 Bigou 514/912
5,075,116 12/1991 La Haye et al. 424/617

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OTHER PUBLICATIONS

Machlin, Lawrence J., et al., *FASEB J.*, 1: 441-445
(1987) "Free Radical Tissue Damage: Protective Role
of Antioxidant Nutrients".

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[57] ABSTRACT

Related U.S. Application Data

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1989, Pat. No. 5,075,116.

In accordance with the present invention, a composition is provided with Vitamins C and E, zinc acetate, copper, selenium, manganese, and at least one of L-cysteine, pyridoxine, and riboflavin. The Vitamins C and E serve as antioxidants, while the zinc acetate, copper, selenium and manganese serve as cofactors for metallo-enzymes which scavenge oxidizers. The remaining three compounds tend to enhance glutathione concentration. All the elements are provided in a tablet or caplet form which is suitable for oral ingestion. Preferably, the composition is taken periodically each day of a treatment period.

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12 Claims, No Drawings