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[54] TOCOPHEROL-BASED ANTIVIRAL AGENTS AND METHOD OF USING SAME

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[58] Field of Search 514/458, 356

[56] **References Cited**

PUBLICATIONS

Chem. Abst. 111, 167396f (1989).

Machlin, L. J., ed., *Handbook of Vitamins,* Chapter 3, "Vitamin E", Marcel Dekker, Inc., 1983.

Mukai, et al., *J. Org. Chem.* 54: 557–560 (1989).

Reimund, E., *Medical Hypotheses* 23: 39 (1987).

The Merck Index, 10th ed., Merck & Co., Inc., 1983, p. 1437.

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[57] **ABSTRACT**

This invention relates to methods for inhibiting viral and retroviral replication and for treating viral and retroviral infections via the administration of compositions containing Vitamin E, tocopherol, or a tocopherol derivative and, more particularly, compositions containing α-tocopherol or a pharmaceutically effective prodrug thereof.

28 Claims, No Drawings