



# Holley Pharmaceuticals

*Home of High Quality Artemisinin*

**“DHA (a derivative of Artemisinin) in combination with butyric acid acts synergistically...”\***

\*Singh, N. and Lai, H., Research Professors, University of Washington. (2005). Synergistic Cytotoxicity of Artemisinin and Sodium Butyrate on Human Cancer Cells. *Anticancer Research* 25: 4325-4332

## Butyrate Enhances Artemisinin's Effectiveness

### What is Butyric acid?

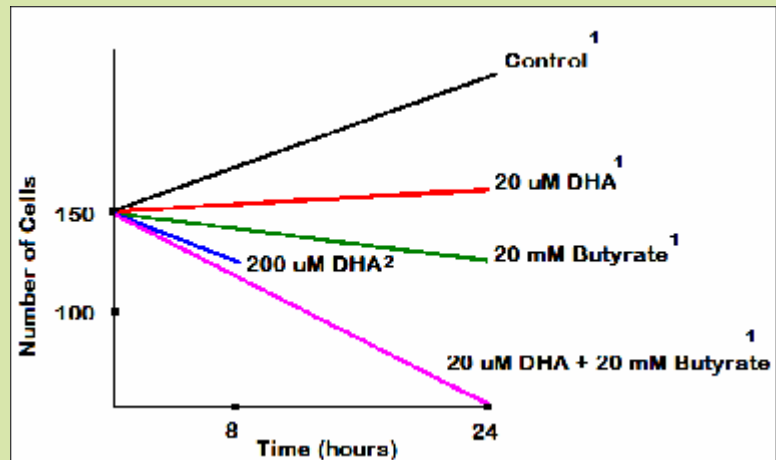
- Short chain fatty acid
- Metabolic end products of bacteria found in the colon

### What does it do?

- Acts as an anti-inflammatory agent and nutrient to normal colon cells
- Maintains balance in GI tract
- Has been found to be effective against abnormal cells *in-vitro*

### Research findings (See graph)

- Using a combination of artemisinin and butyrate significantly enhanced the effect of either ingredient alone.
- Butyric acid increases potency of artemisinin by 5-10 times



This graph is for illustration purposes only. The data is taken from *Anticancer Research* 25: 4325-4332 (2005)<sup>1</sup> and *Cancer Letters* 91 (1995) 41-46<sup>2</sup>. The data collection for 200 uM DHA stopped after 8 hours and is reflected on the graph. The cells were Molt-4 –lymphoblastoid cells (acute lymphoblastic leukemia cells).

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