

In

INSIGHT
FROM
MANNATECH'S
R&D
DEPARTMENT

About Mannatech's Ambrotose® Products



information
for your doctor

what are ambrotose® products?

Ambrotose® products are dietary supplements composed of mixtures of plant polysaccharides. Currently, two products are available: Ambrotose® complex and Advanced Ambrotose™. Over 43 patents have been issued for technology related to the Ambrotose® formulation.

These products are based on the same core technology. Both are available in capsules and as a bulk powder that can be added to water or juices. Advanced Ambrotose™ is enriched with wakame, a brown algae (*Undaria pinnatifida*) that is rich in beneficial polysaccharides known as fucoidans.

what safety information is available for ambrotose® products?

The ingredients in these products have a long history of safe use by humans. Established in 1997, Mannatech's Product Safety Monitoring Program continues to document that Ambrotose® products are safe for daily consumption. Over 2.4 million units of Ambrotose® complex have been sold since it was introduced in 1996. Over 2.1 million units of Advanced Ambrotose™ have been sold since it was introduced in 2006.

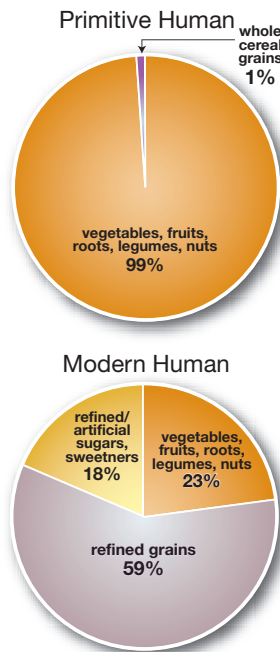
Ambrotose® bulk powder and Advanced Ambrotose™ bulk powder and capsules have been tested and confirmed gluten free. Advanced Ambrotose™ products are also suitable for vegetarians.

Mannatech's Ambrotose® complex was the first polysaccharide dietary supplement to recognize and capitalize on biologically-active polysaccharide technologies

The acute oral LD₅₀ of both Ambrotose® complex and Advanced Ambrotose™ is greater than 5,000 mg/kg body weight in female rats. The highest amount that can currently be tested using this test is equivalent to hundreds of times the recommended daily amount for adults.

*** 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.**

Figure 1
Intake of Saccharides



why would a person want to take a polysaccharide supplement?

Can't we get these polysaccharides from the foods we typically eat? Not really. A key component of Ambrotose® products is stabilized aloe vera gel polysaccharides. Other healthful saccharides—from brown algae and plant gums—are much less common in our modern diets than they were in the past (Figure 1).¹ Further, very few of us eat enough fruit and vegetables—additional sources of plant saccharides. Only 11% of U.S. adults meet the guidelines for recommended fruit and vegetable intake.² Mannatech believes that Ambrotose® supplementation may be beneficial for virtually everyone.*

what studies have been published on ambrotose® products?

Laboratory studies suggest that Ambrotose® products exert prebiotic, antioxidant and immune system effects. In a double-blind, placebo-controlled study, it exerted beneficial effects on brain function. Mannatech is committed to learning more. Researchers in Mannatech's laboratory and at academic institutions worldwide are continuing to explore the effects of Ambrotose® products.

Ambrotose® Complex

- Introduced in 1996
- Over **2.4 million** units sold
- Bulk formula gluten free

Advanced Ambrotose™

- Introduced in 2006
- Over **2.1 million** units sold
- Enriched with wakame fucoidans
- Gluten free
- Suitable for vegetarians

REFERENCE LIST

- Eaton SB, Eaton SB, III, Konner MJ. Paleolithic nutrition revisited: a twelve-year retrospective on its nature and implications. *Eur J Clin Nutr* 1997; 51(4): 207-16.
- Casagrande SS, Wang Y, Anderson C, et al. Have Americans increased their fruit and vegetable intake? The trends between 1988 and 2002. *Am J Prev Med* 2007; 32(4): 257-63.