

Limu Plus vs. Original Limu
A Research Summary

Due to recent publishing's of research, hypothecations, and misinformation regarding both the "Original Limu" and "Limu Plus" branded products, our company was contracted to provide third party investigative analytical documentation evidencing the elemental and active content of these two nutritional supplements.

Reportedly a polysaccharide known as "Fucoidan" is a key, essential nutrient naturally occurring within Limu Moui Extract. Limu Moui Extract originates from an angel hair style algae popular in the Republic of Tonga and related regions. This wild-crafted algae, in its extracted form, has shown great benefit as a nutritional supplement. The nutritional results of the extract have been marketed over time as a Fucoidan-containing food concentrate and a natural food source of a multitude of aquatic nutrients.

Globally, there are very few companies that have the equipment, knowledge, and technologies available to accurately test and measure these finite nutritive compounds. We located and employed the services of North Texas Research Laboratory (a division of North Texas Medical Associates) and requested Dr. Danhof (Ph.D, M.D.) to perform a nutritional analysis focusing its emphasis on Fucoidans.

On May 19, 2004, a bench chemist by the name of R.H. Molony published his microscopic examination, product comparison, and comments on the two brands using a test procedure referred to in his report "Methylene Blue precipitation." This test, when published in the 1930's, was the best method available at the time; with today's advances in science and technology – and using researchers with advanced knowledge, capabilities, and degrees specifically in this type of research – a more accurate and reliable platform of information is attainable and defensible.

The attached Certificates of Analysis accurately validate the existence and potency of Fucoidans in both brands. First, it is important to note that both brands have a substantially higher level of Fucoidan using "Size-Exclusion Chromatography" than that found on the May 19 report from Molab Ltd. Second, the verified confirmation of the Polysaccharide Fucoidan in the two brands, as well as the raw material extract from Tonga are as follows:

<u>Sample</u>	<u>Fucoidan Content</u>
Limu Plus	1.82%
Original Limu	1.68%
[Limu Moui Raw Material Extract]	2.20%

Third, the final content comparison of Fucoidan shows the Limu Plus brand to be 8.6% higher than the Original Limu brand. And last, this comparison identifies identical molecular structure in size and characteristic to all three test groups.

This evidence discredits the opinion that one brand is in an insoluble form (as commented on by Molab), or that there may be a bioavailability difference between the two brands. The bioavailability is identical, yet the bioactivity of the Limu Plus brand is 8.6% higher.

Furthermore, these tests prove the unreliability and limitations of archaic testing methodologies and that advanced nutritional properties require advanced nutritional testing technologies.

In closing, there is a variety of other pertinent information published in Dr. Danhof's (Ph.D, M.D.) tests that also shows higher contents and nutritional values in the Limu Plus brand. It is important to note that adaptogenic activity was not tested as the Original Limu label does not report its inclusion and other nutritional values and compounds were not tested at this time. This test was performed at the direct response to the May 19 circular to help alleviate any possible confusion or misunderstanding.

Thank you for your inquiry.

Vitarich Laboratories, Inc.
Manufacturer of Limu Plus, and
Importer of Original Tongan Limu
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