

# NORTH TEXAS RESEARCH LABORATORY

A Division of North Texas Medical Associates

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*Director*

12 July 2004

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Date Received: 17 June 2004  
Date Examined: 17, 18, 19 June 2004  
30 June, 01, 02 July 2004  
07, 08, 09 July 2004  
Date Reported: 12 July 2004 04229  
04240  
Sponsor: Vitarich Labs Quality Control  
4365 Arnold Avenue  
Naples, Florida 34104

**SAMPLE:**

Sample Designation: Limu Moui Extract / Raw Material  
Republic of Tonga  
Vitarich Laboratories

Control Number: Batch #37486; 06-10-04

Container: Quality control plastic bottle

Sealed: Internal

Sample Source: Vitarich Labs

Color: Very dark mahogany brown

Characteristics: Densely opaque; slight increase in  
viscosity; fine sediment

Taste: Herbal

Precipitate: Dark chocolate brown; Light yellow-gold; slight  
finely granular; fine opacification; finely granular  
sediment sediment removed

Fucoidan: (110,000-155,000 Daltons) = 2.20%

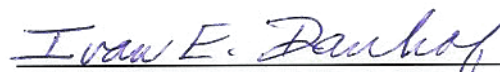
Fine Sediment: 0.110%

Total Solids (TS) = 4.898%\* 4.788%\*\*  
\*Including extract components, preservatives (if any), and additives, plus sedimentary particles  
\*\*Including the above, but with sedimentary particles removed

MeOH Solids (MS) = 1.268% \*\*\* 1.140%\*\*\*\*  
\*\*\*Including MeOH Solids and sedimentary particles  
\*\*\*\*MeOH-Precipitable Solids = 1.140% = 1.140g% = 1.140 g/dL = 1,140 mg/dL = 11,400mg/L

**Comments:**

Size-Exclusion Chromatography: See attached pages

  
Ivan E. Danhof, Ph.D., M.D.