

**COMPARATIVE ANALYSIS OF VITAMINS FOUND BETWEEN
CULTURED AND NATURAL LIVING *Auricularia auricularia-judae*
(WOODEN EAR MUSHROOM)**



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ABSTRACT

In getting the level of its vitamin content, High Performance Liquid Chromatography was used both in the cultured and natural living *A. auricularia-judae*. The prepared specimens were subjected for extraction for easy determination of the vitamins itself before it was transferred for the HPLC analysis. The results obtained in natural living *A. auricularia judae*, Riboflavin was not detected and it is comprise of 20.0 IU/g Vitamin A, 4.35 ppm Thiamin and 0.004% Vitamin C while in cultured *A. auricularia judae* the Vitamin that was not detected was Vitamin A, and it contains 3.58 ppm Thiamine, 0.016% Vitamin C and 0.082% Riboflavin.

Significant differences between the vitamin levels that have been detected of cultured and natural living *A. auricularia judae* were determined by using two-sample t-test. Vitamin A was not detected in cultured *A. auricularia judae* showing its significant difference in natural living in which this vitamin was detected in value of 20.0 IU/g. In Riboflavin analysis, it was not detected in natural living *A. auricularia judae*, which shows its significant difference between the cultured species since it has a value of 0.082%. Samples from both habitats show the presence of Vitamin C, but the study showed that the cultured species is good source of the vitamin rather than the natural living specimen. Thiamin analysis shows no significant difference between the compared habitats.

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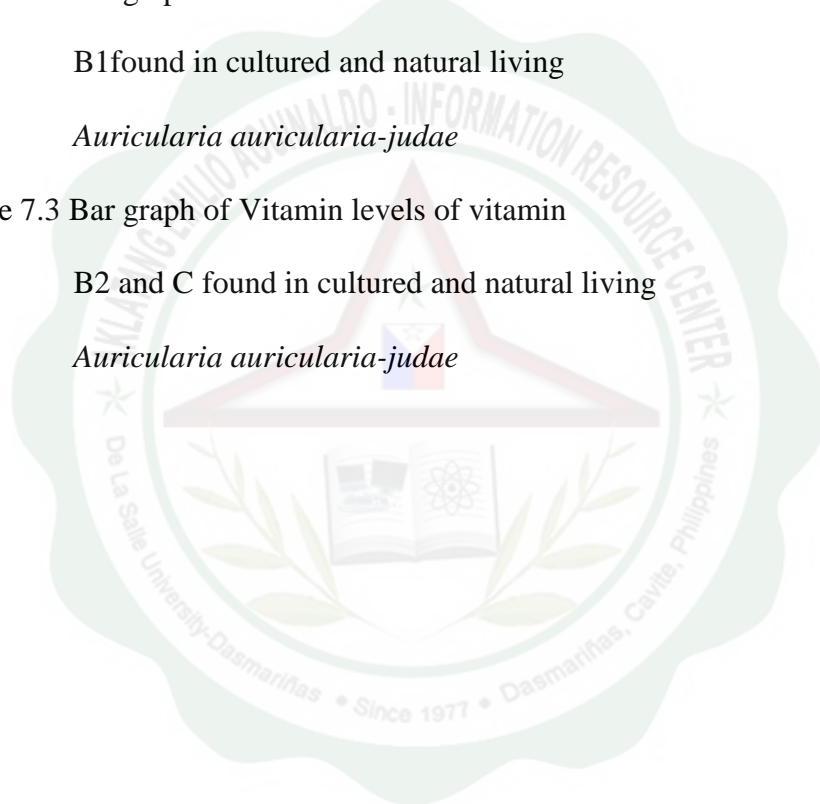
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