



info@activeconceptsllc.com • Phone: +1-704-276-7100 • Fax: +1-704-276-7101

Safety Statement

Product Name: ACB Wakame Bioferment Advanced

Code: 20024

INCI Name: Undaria Pinnatifida Cell Culture Extract

ACB Wakame Bioferment Advanced is manufactured by first growing *Undaria pinnatifida* in cell culture, then macerating and fermenting the plant with *Lactobacillus*. The ferment then undergoes filtration to purify the plant culture extract.

Lactobacillus is a genus of microorganisms used to produce a variety of food products. It is a type of Lactic Acid Bacteria (LAB) and converts various sugars into lactic acid. Any existing LAB in ACB Wakame Bioferment Advanced is removed by filtration. Since *Lactobacillus* species are intentionally used in food, they may be classified as Generally Recognized as Safe (GRAS) according to the FDA's Federal Food, Drug and Cosmetic Act.¹

The act states:

Any substance that is intentionally added to food is a food additive, that is subject to premarket review and approval by FDA, unless the substance is generally recognized, among qualified experts, as having been adequately shown to be safe under the conditions of its intended use, or unless the use of the substance is otherwise excluded from the definition of a food additive.¹

Undaria pinnatifida, or wakame seaweed, is widely used in both food/beverage and medicinal applications. In traditional Oriental medicine, *Undaria pinnatifida* has been used for blood purification, intestinal strength, skin, hair, reproductive organs and menstrual regularity. In Asia and Europe, it is commonly used in Miso soup and salads or often as a side dish to tofu. Many women also consume wakame during pregnancy and after giving birth as it contains a high content of minerals and nutrients that are important for the nutrition of nursing mothers.² Due to its wide use in the food and food-related industries, Wakame and the cell culture extract derived from *Undaria pinnatifida* plant cells, may be considered GRAS according to the FDA.¹

Undaria pinnatifida is part of the brown seaweed family.² The FDA Select Committee on GRAS Substances (SCOGS) investigated the safety of various species of seaweed, including brown algae. The biological information available with respect to algae, dulse, kelp and certain species derived from the like, came from studies involving several animal species that revealed no evidence of adverse health effects from the ingestion of algal species tested or from their derived products. The SCOGS concluded that there is no evidence to demonstrate or suggest reasonable grounds to suspect a hazard to the public safety or health when these plants are used at current levels or at reasonable expected levels in the future.³

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied.
This information is offered solely for your investigation, verification, and consideration.



Safety Statement

info@activeconceptsllc.com • Phone: +1-704-276-7100 • Fax: +1-704-276-7101

ACB Wakame Bioferment Advanced was analyzed for its effect on cell viability and metabolism. The assay concluded that it is not cytotoxic and increased cell viability and metabolism.

ACB Wakame Bioferment Advanced was also tested using in vitro dermal and ocular irritation models. This product was found to be non-irritating in both models. The full report is attached for reference.

The above information supports the safety of ACB Wakame Bioferment Advanced in cosmetic applications at use levels of 0.5 – 2.0%. No further testing is required at this time.

1. FDA's Federal Food, Drug and Cosmetic Act.
<http://www.fda.gov/RegulatoryInformation/Legislation/FederalFoodDrugandCosmeticActFDCA/default.htm>
2. Seaweed Industry Association © 2014. <https://seaweedindustry.com/seaweed/type/undaria-pinnatifida>
3. FDA's Database of Select Committee on GRAS Substances (SCOGS) Reviews.
<http://www.accessdata.fda.gov/scripts/fcn/fcnDetailNavigation.cfm?rpt=scogsListing&id=39>

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied.
This information is offered solely for your investigation, verification, and consideration.