

ABSTRACT

Isolation and Characterization of Skualena from Fishery Industry Waste *Literature Review*

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Squalene is often used as an antioxidant, bactericidal and fungicidal agent, antistatic agent and moisturizer in cosmetic and pharmaceutical preparations. *Squalene* is an unsaturated polyhydrocarbon compound and is found in the liver oil of black shark genus *Zameus*. The source of *squalene* (Sq), which comes from sharks, is currently very limited because it can affect the extinction of sharks, besides that sharks are also protected marine animals. In assessing the limited supply of *squalene* above, it is necessary to find alternative sources of *squalene* that can be found or taken from other than sharks. this literature review aims to determine the isolation method and yield data obtained from isolating skualena from fish. The search for data related to *squalene* from various fish species was carried out by searching with the keyword "isolation and characterization of *squalene* from fish" in the PubMed, Google Scholar and Scopus databases Selected articles are articles that meet the inclusion- exclusion criteria and the data to be extracted. The number of articles that match these criteria is 8 articles. Based on these articles, it can be seen that skualena isolation can be done by first extraction with the Bligh and Dyer method, the Soxtec system, sokhletation followed by purification and characterized using TLC, RP-HPLC and FTIR instruments.

Keyword: squalene isolation, fish oil, liver oil, characterization.