

从鱼油中提取分离高纯度EPA和DHA的试验研究

Study on Extraction of High Purity of EPA and DHA From Fish Oils

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英文关键词: Fish oil AgNO₃ complex Supercritical CO₂ Extraction EPA DHA

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中文摘要:

进行了硝酸银络合与超临界CO₂精馏相结合的方法, 从鱼油中提取高纯度EPA和DHA的试验研究, 结果表明: 用该两步法可同时获得纯度为90%以上的EPA和DHA。

英文摘要:

Two step method was developed for separation and purification of EPA and DHA from fish oils. EPA and DHA were first enriched by aqueous AgNO₃ complex. As the concentration of aqueous AgNO₃ was more than 4M at 293.2K, most of EPA and DHA were selectively transferred into aqueous phase from oil phase. Then, the preconcentrated EPA and DHA were further refined by rectifying technology of supercritical CO₂. The effects of pressure, temperature gradient of the rectification column, flow rate, quantity and composition of feed were examined. The optimum conditions were given. 90.3%EPA and 91.4%DHA were obtained with the yield of about 40% at the same time.

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