

Title (en)
CONCENTRATION AND PURIFICATION OF POLYUNSATURATED FATTY ACID

Title (de)
KONZENTRIERUNG UND REINIGUNG VON POLYUNGESÄTTIGTEN FETTSÄUREN

Title (fr)
CONCENTRATION ET PURIFICATION D'ESTERS D'ACIDES GRAS POLYINSATURES PAR COUPLAGE DISTILLATION
TRANSESTERIFICATION ENZYMATIQUE

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Application
EP 00938359 A 20000531

Priority
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Abstract (en)
[origin: WO0073254A1] A process for producing highly concentrated preparations of polyunsaturated fatty acids and their esters from oils, especially fish oils, in which they occur mainly as their triglyceride esters. The process uses a combination of transesterification of the triglycerides with a lower alkyl alcohol or benzyl alcohol, molecular distillation and selective enzymatic transesterification with an alkoxy alcohol catalysed by lipases which desirably can be immobilized. The process permits the separation of the acids mixture usually encountered in the oils, and isolation of desired acids in high yields. Typical acids which can be obtained by means of this process are eicosapentaenoic acid (EPA, C20:5) and docosahexaenoic acid (DHA, C22:6).

IPC 1-7
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IPC 8 full level
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