Solid Phase Extraction of Eicosapentaenoic and Docosahexaenoic Acids from Antarctic Krill

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There is significant research interest in solid phase extraction of eicosapentaenoic acid and docosahexaenoic acid from Antarctic krill crude extracts. This study completely compared extraction effects of eicosapentaenoic acid and docosahexaenoic acid from Antarctic krill crude extracts using different materials column. The best extraction effect was obtained for zinc ion doped C18 column using methanol content in water gradually washing, and using pure acetonitrile to elute. For detection of eicosapentaenoic acid and docosahexaenoic acid, they were firstly converted to methyl esters, and then were detected as methyl esters by gas chromatograph coupled with flame ionisation detector.