

Fatty acids are major lipid components, and their content ratios exhibit some features of lipids. In this note, utilizing ADAM (9-anthryldiazomethane) as a fluorescent derivatization reagent, fatty acids are determined by HPLC-fluorescence detection system.

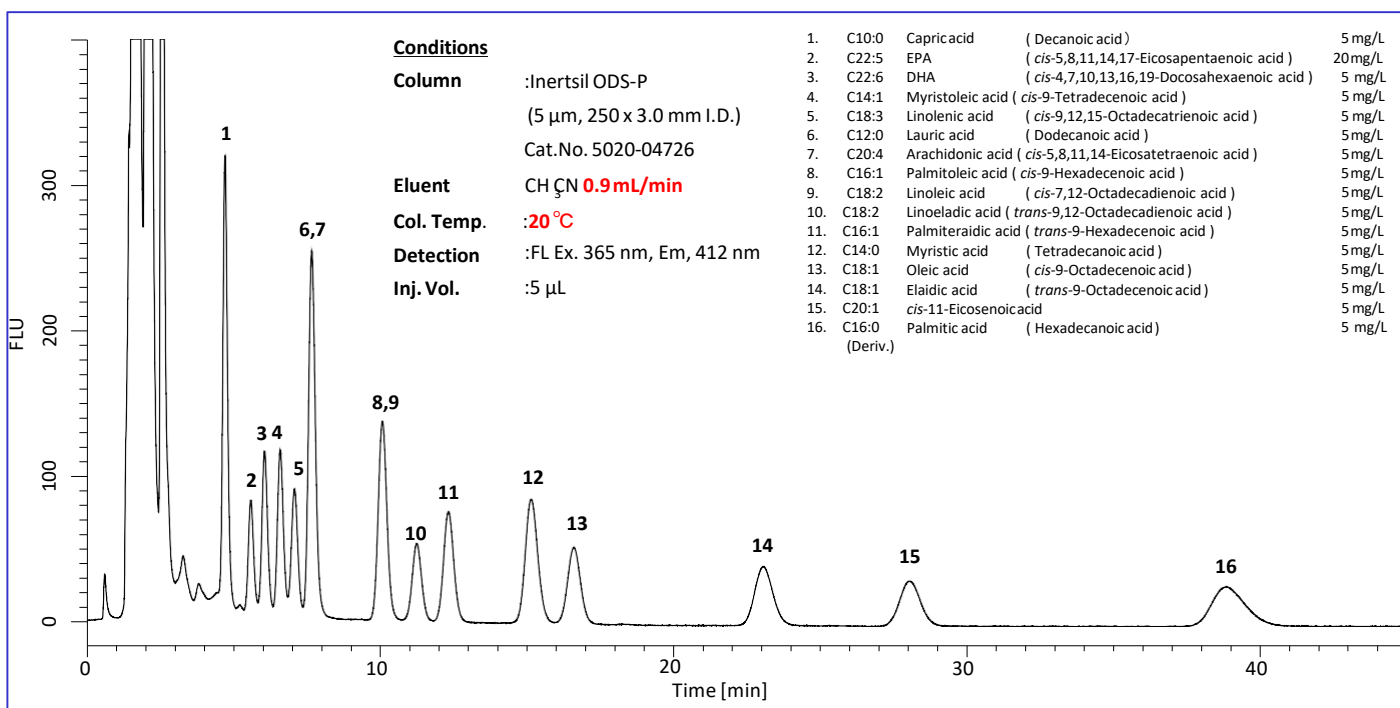
In example 1, the derivatives of representative fatty acids, such as EPA (*cis*-5,8,11,14,17-eicosapentaenoic acid) and DHA (*cis*-4,7,10,13,16,19-docosahexaenoic acid), are successfully separated. However, run time

becomes too long if more hydrophobic fatty acids are analyzed under the condition. Therefore, another condition shown in example 2 was also described in this note.

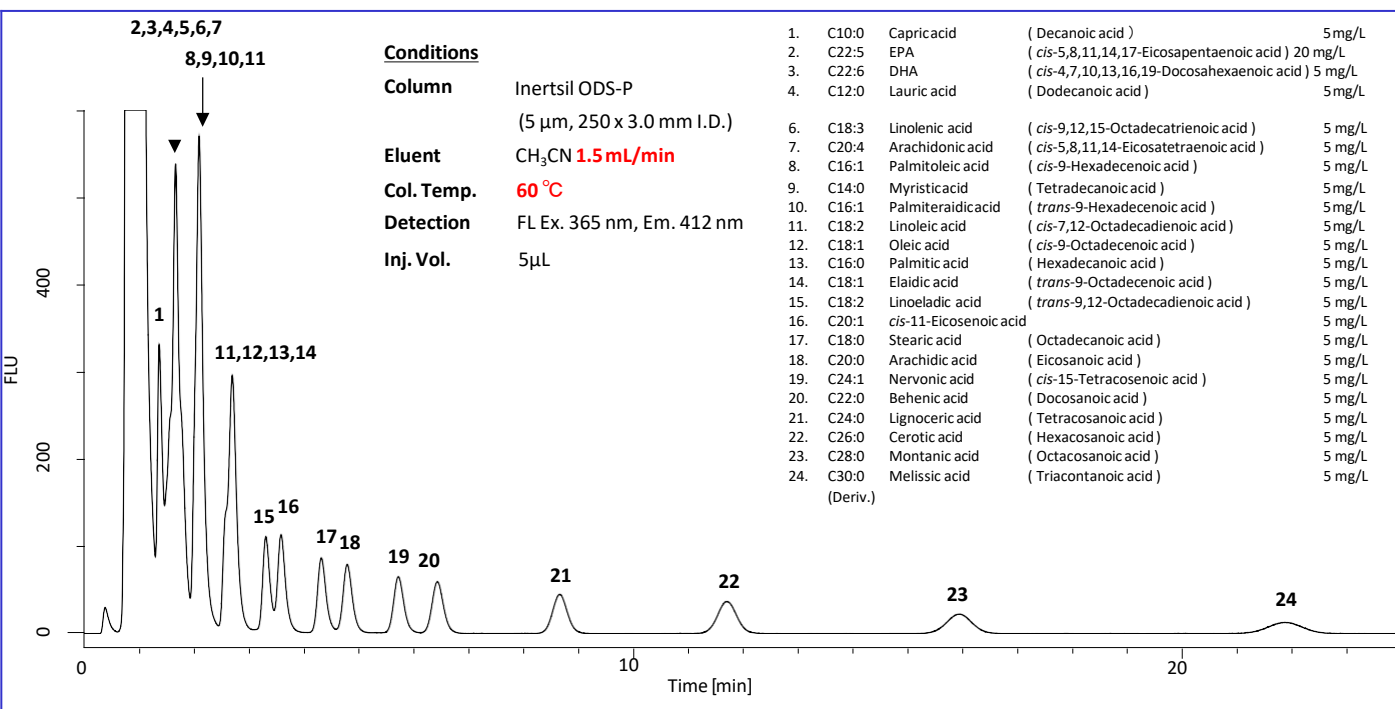
The derivatization reaction was performed by adding 100 $\mu$ L of 0.1 % ADAM solution to 500  $\mu$ L of standard solution of fatty acids. After waiting for 1 hour, the reaction solution was injected into the HPLC system.

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## Example 1



## Example 2



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