## Fatty Acid Compositions of Sea Algaes in the of Korea

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Total lipid contents were 0.58~3.00% in 9 kinds of brown algaes, 0.47 ~2.16% in 5 kinds of red algaes and 0.55~2.99% in 2 kind of green algeas, respectively. Fatty acid compositions of the algaes were determined by gas liquid chromatography. Total polyenes and n-3 polyenes of linoleic acid(18:3), stearidonic acid(18:4), eicosapentaenoic acid(20:5) and docosahexaenoic acid(22:6) were 3.88~57.57% and 1.46~25.67% in the brown algaes, 5.30~39.75% and 1.17~21.91% in the red algaes, and 7.76~19.27% and 3.67%~10.61% in the green algaes, respectively. The fatty acid contents and compositions of total polyenes and n-3 polyenes were vary different in the algae groups and sepecies.

Key words: Korean sea algaes, fatty acid compositions, n-3 polyunsaturated fatty acids.

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