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 α -Carotene and β -carotene are a type of carotenoid and widely known as precursors to vitamin A in human body. They also have antioxidant activity.

The two carotenes are very similar in chemical structure. Since the difference is only in the position of a carbon-carbon double bond, it is difficult to separate them with widely-used monomeric ODS columns. To solve this problem, Inertsil ODS-P, which is a polymeric ODS column and superior in steric recognition, was used as a separation column in this note. (K. Suzuki)



Chromatograms obtained from standard solution





Analyses of food samples





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