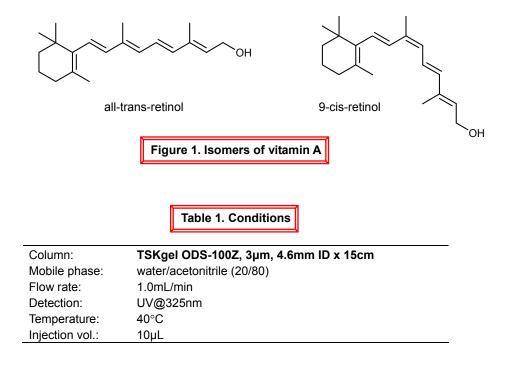
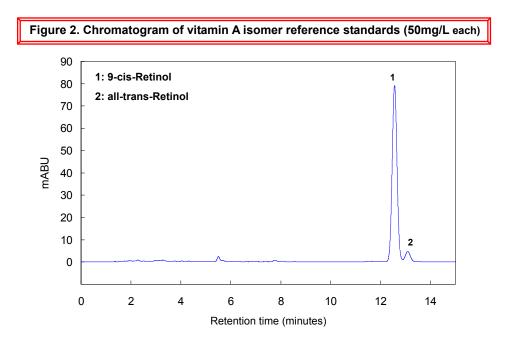
TSKgel[®] TECHNICAL INFORMATION SHEET

Separation of Vitamin A Isomers

Vitamin A, also called retinol, is a fat-soluble vitamin that has several important functions, among them the prevention of night blindness, promoting growth, and enhancing immunity. Although vitamin A is present in animal food products, in vegetables it is present as pro-vitamin A, a precursor of vitamin A, usually in the form of β -carotene. As shown in Figure 1, in addition to the all-trans form, some isomers of vitamin A are also present. This application shows the separation of the all-trans and 9-cis retinol isomers using a high coverage 3 micron packed C18 column. The UV detector wavelength was set at 325nm, the absorption maximum for retinol.







TOSOH BIOSCIENCE

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