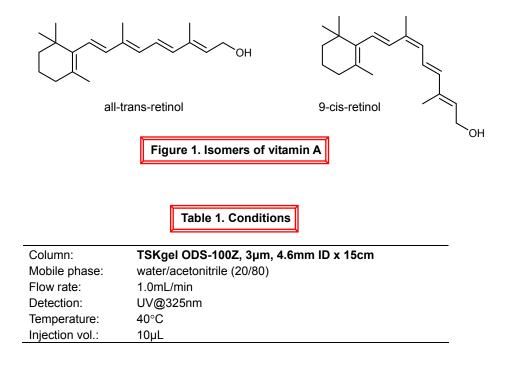
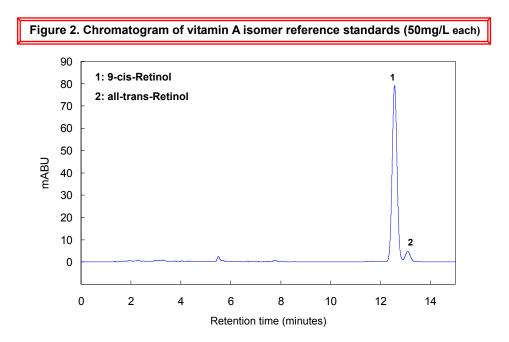
## TSKgel<sup>®</sup> TECHNICAL INFORMATION SHEET

## **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  $\beta$ -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**

TOSOH Bioscience LLC 3604 Horizon Drive, Suite 100 King of Prussia, PA 19406 Orders & Service: (800) 366-4875 Fax: (610) 272-3028 www.separations.us.tosohbioscience.com email: info.tbl@tosoh.com