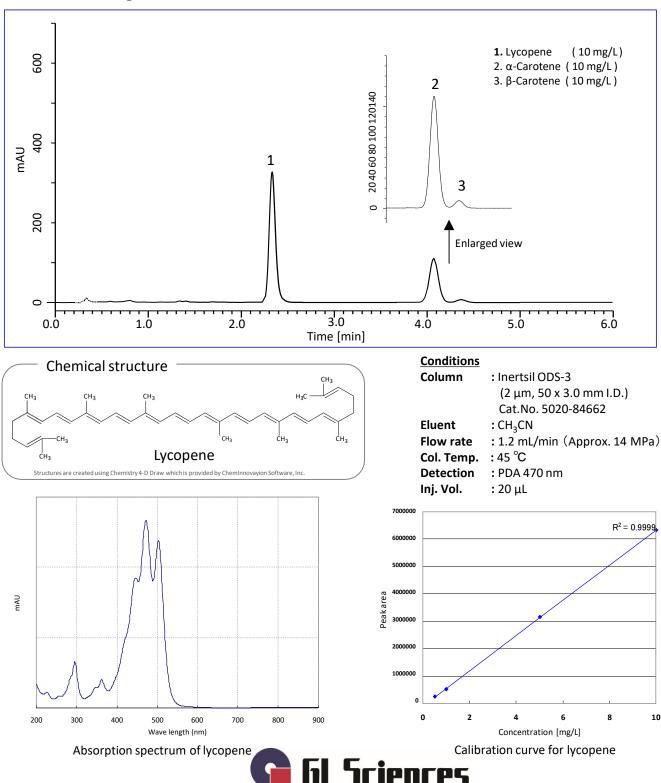
# Analysis of Lycopene in Food by HPLC

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Lycopene is a type of carotenoid. It is found in red fruits and vegetables such as tomatoes, and known to have strong anti-oxidative effect. This note describes a determination method for lycopene in food samples using an HPLC system. In this method, not only retention time of lycopene but also those of  $\alpha$ -carotene and  $\beta$ -carotene were determined. The sample pretreatment is consisted of only liquid extraction and centrifugation. For the HPLC separation, 50 mm length Inertsil ODS-3 column packed with 2 µm particle was used. As a result, sharp peaks were obtained from standard solution and food samples within 5 min under lower pressure than 15 MPa (150 bar).

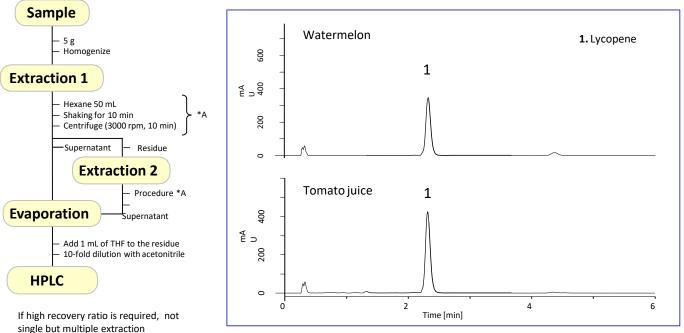
(K. Suzuki)



# A Chromatogram Obtained from Standard Solution

## Chromatograms Obtained from Food Samples

#### An Example of Sample Pretreatment



single but multiple extraction (procedure \*A) should be carried out.

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