

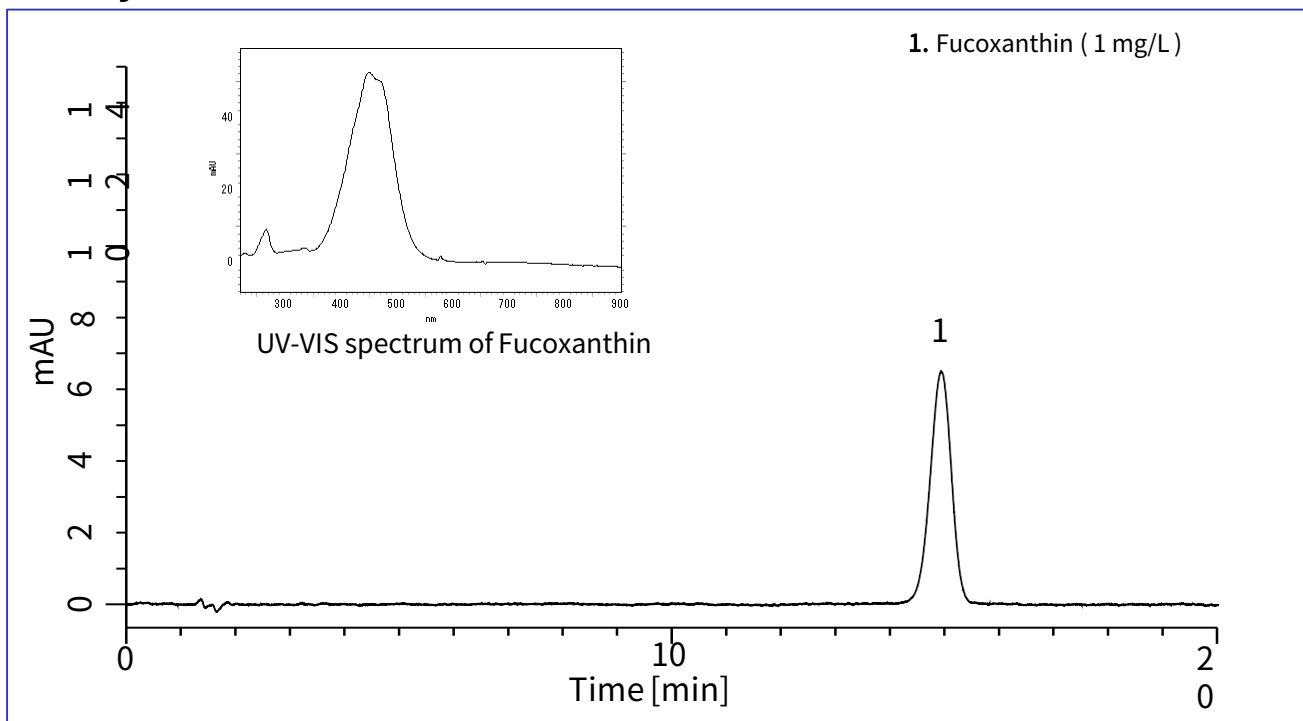
This is an application data of analyzing Fucoxanthin in food by HPLC. Fucoxanthin is a carotenoid, which exists in a lot of brown algae and is a strong antioxidative potency compound. Fucoxanthin are confirmed to have an anticancer effect in some experiment tests.

As a sample preparation procedure, solvent extraction was first done and then a centrifugation separation was conducted to remove suspended solids.

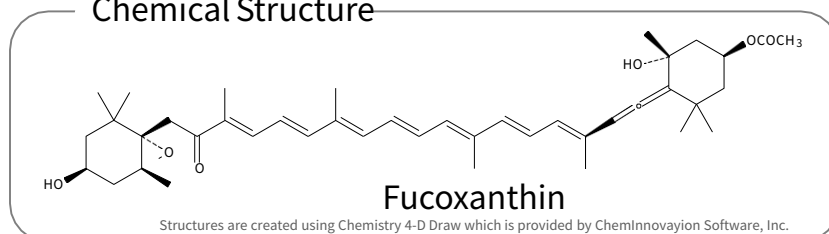
Detection was made by a GL-7452 PDA detector and confirmed a good peak.

(K. Suzuki)

## Analysis of Standard Solution



### Chemical Structure



### Analytical Conditions

**Column** : Inertsil ODS-3  
(4  $\mu\text{m}$ , 150 x 4.6 mm I.D.)  
Cat.No. 5020-04645

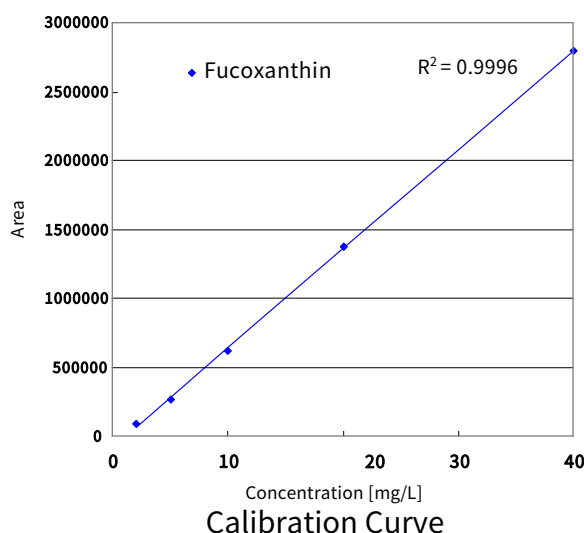
**Mobile Phase** : A)  $\text{CH}_3\text{CN}$   
B)  $\text{H}_2\text{O}$   
A/B = 75/25, v/v  
(gradient mixer)

**Flow Rate** : 1 mL/min

**Column Temp.** : 40  $^\circ\text{C}$

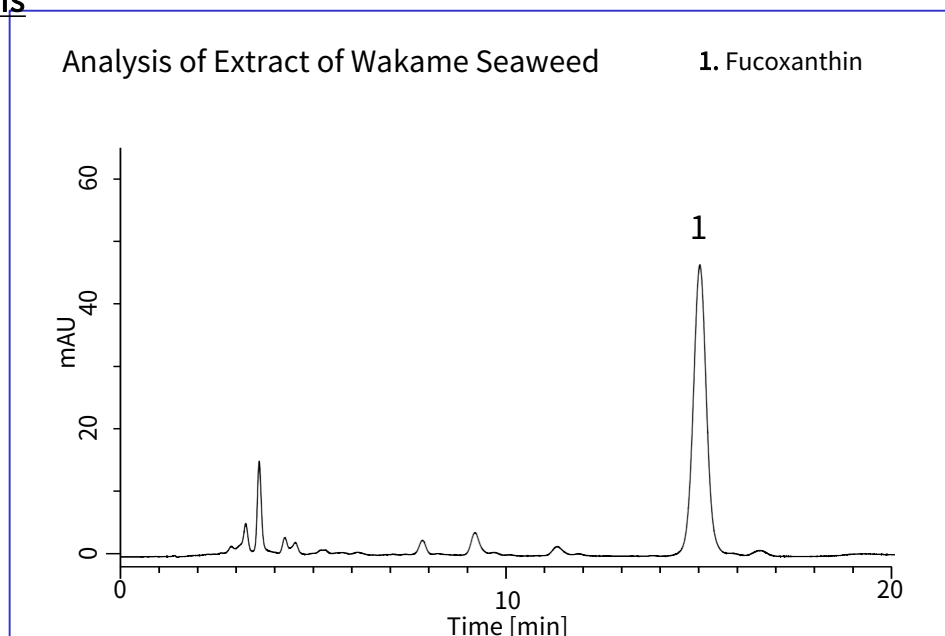
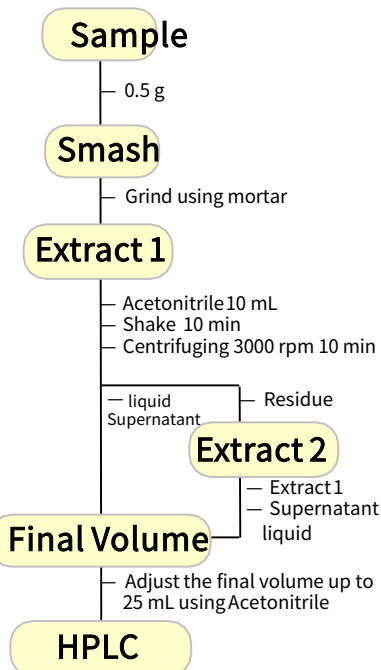
**Detector** : PDA 445nm

**Injection Volume** : 20  $\mu\text{L}$



# Analysis of seaweed

## Pretreatment Conditions



GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

### GL Sciences Inc. Japan

22-1 Nishishinjuku 6-chome  
Shinjuku-ku, Tokyo  
163-1130, Japan

Phone: +81-3-5323-6620  
Fax: +81-3-5323-6621  
Email: [world@glsc.co.jp](mailto:world@glsc.co.jp)  
Web: [www.glsciences.com](http://www.glsciences.com)

### GL Sciences Inc. USA

4733 Torrance Blvd. Suite 255  
Torrance, CA 90503  
USA

Phone: +1-310-265-4424  
Fax: +1-310-265-4425  
Email: [info@glsciencesinc.com](mailto:info@glsciencesinc.com)  
Web: [www.glsciencesinc.com](http://www.glsciencesinc.com)

### GL Sciences B.V.

Dillenburgstraat 7C  
5652AM, Eindhoven  
The Netherlands

Phone: +31-40-254-9531  
Email: [info@glsciences.eu](mailto:info@glsciences.eu)  
Web: [www.glsciences.eu](http://www.glsciences.eu)

### GL Sciences (Shanghai) Limited

Tower B, Room 2003  
Far East International Plaza  
No.317 Xianxia Road, Changning District  
Shanghai, China 200051

Phone: +86-21-62782272  
Email: [contact@glsciences.com.cn](mailto:contact@glsciences.com.cn)  
Web: [www.glsciences.com.cn](http://www.glsciences.com.cn)



### International Distributors

Visit our Website at [www.glsciences.com/distributors](http://www.glsciences.com/distributors)