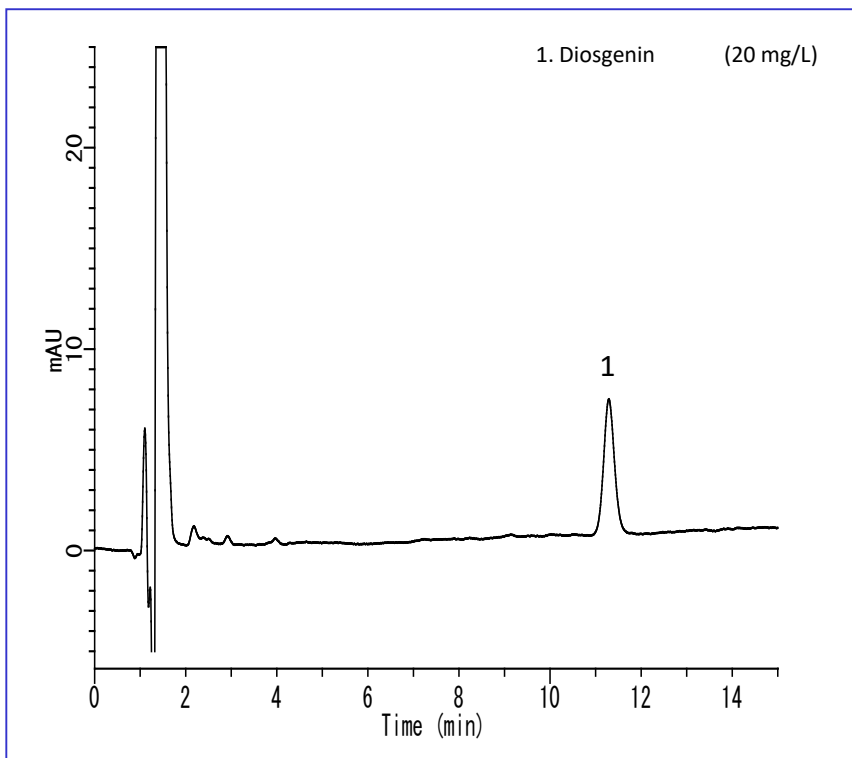


This application describes the analysis of diosgenin.

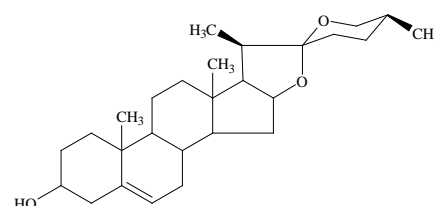
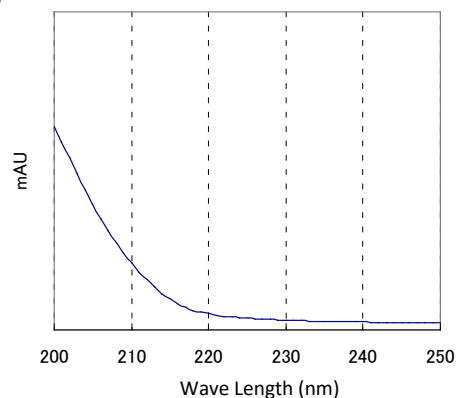
Diosgenin is a saponin found in yam, and it is reported as being effective in dieting. Since detection of diosgenin is sensitive only at the low wavelengths, it is detected at the wavelength of UV 203 nm. This report details the analysis of diosgenin in vegetable juice with good results, following removal of contaminants.

(K.Suzuki)

## Example: Measurement of standard



### Structural formula and UV spectrum

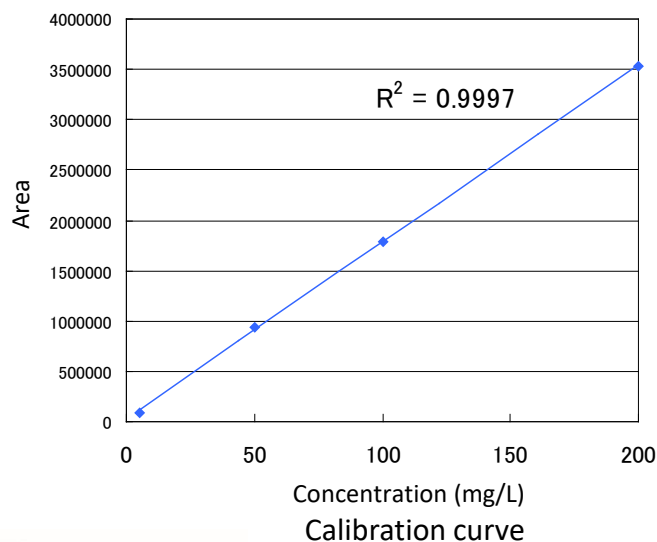


Diosgenin

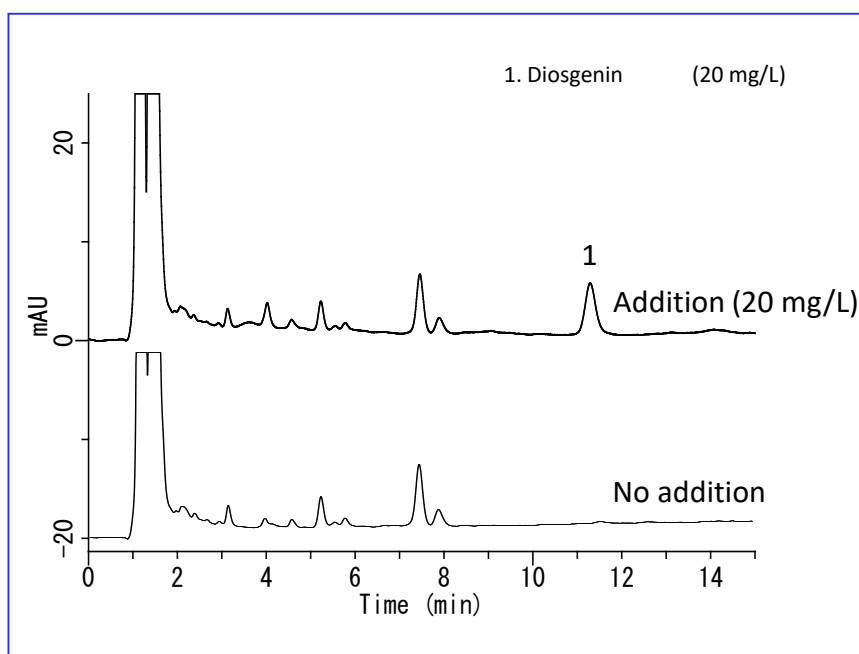
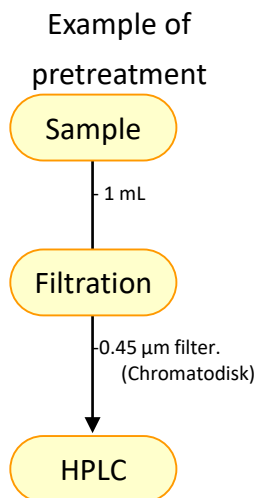
Structures are created using Chemistry 4-D Draw which is provided By ChemInnovation Software, Inc.

### HPLC conditions

<b>Column</b>	: Inertsil ODS-SP (5 $\mu$ m, 150 x 3.0 mm I.D.)
<b>Eluent</b>	: A) CH <sub>3</sub> CN B) H <sub>2</sub> O A/B = 75/25, v/v (Mixed by a gradient mixer)
<b>Flow rate</b>	: 0.6 mL/min
<b>Column temperature</b>	: 40 °C
<b>Detected</b>	: PDA 203 nm
<b>Injection volume</b>	: 20 $\mu$ L



## Examples: analysis of vegetable juice



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 B.V.**

De Sleutel 9  
5652 AS Eindhoven  
The Netherlands  
Phone: +31 (0)40 254 95 31  
Email: [info@glsciences.eu](mailto:info@glsciences.eu)  
Web: [www.glsciences.eu](http://www.glsciences.eu)

### **GL Sciences (ShangHai) Ltd.**

Tower B, Room 2003,  
Far East International Plaza,  
NO,317 Xianxia Road,  
Changning District.  
Shanghai, China P.C. 200032  
Phone: +86 (0)21-6278-2272  
Email: [contact@glsciences.com.cn](mailto:contact@glsciences.com.cn)  
Web: [www.glsciences.com.cn](http://www.glsciences.com.cn)

### **GL Sciences, Inc. USA**

4733 Torrance Blvd. Suite 255  
Torrance, CA 90503  
Phone: 310-265-4424  
Fax: 310-265-4425  
Email: [info@glsciencesinc.com](mailto:info@glsciencesinc.com)  
Web: [www.glsciencesinc.com](http://www.glsciencesinc.com)

### **International Distributors**

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