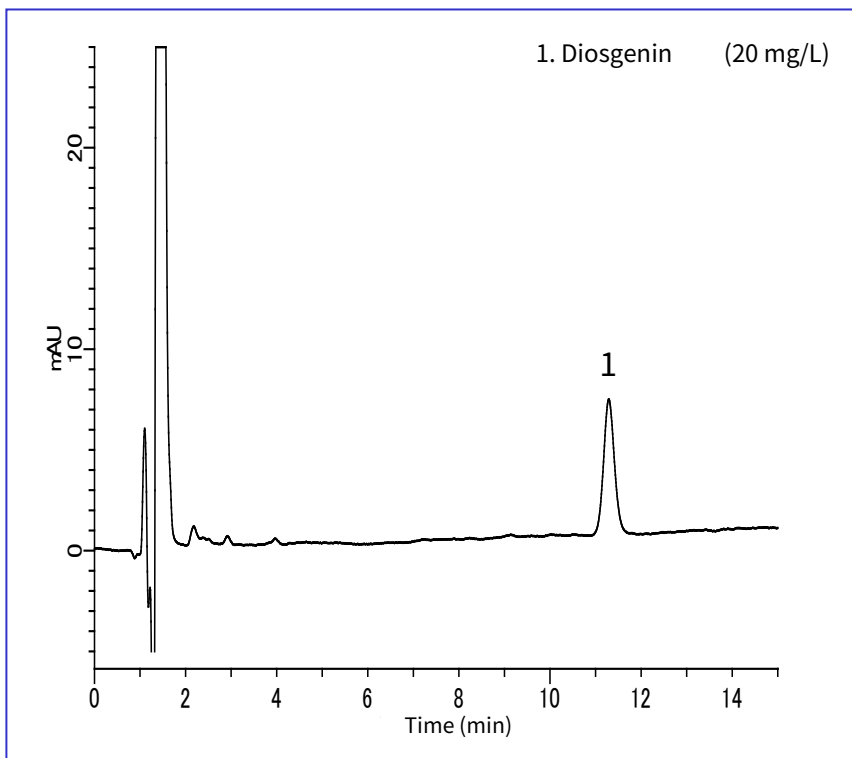


This application describes the analysis of diosgenin.

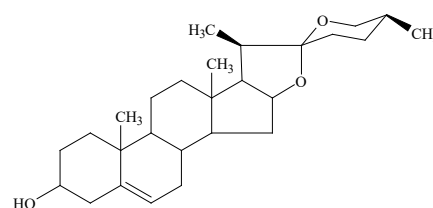
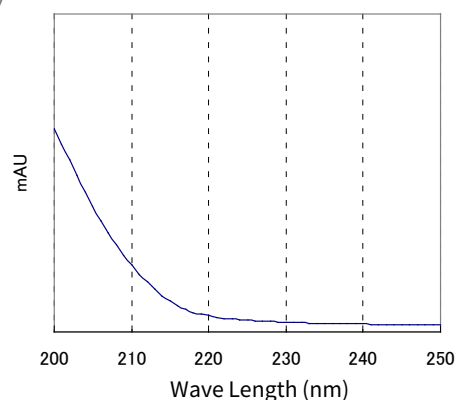
Diosgenin is a saponin found in yam, and it is reported as being effective in dieting. Since detection of diosgenin is sensitive only at the low wavelengths, it is detected at the wavelength of UV 203 nm. This report details the analysis of diosgenin in vegetable juice with good results, following removal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

(K.Suzuki)

Example: Measurement of standard



Structural formula and UV spectrum

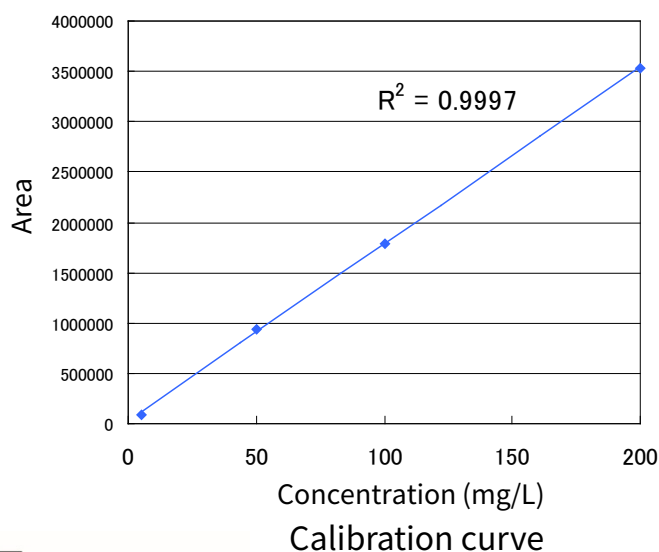


Diosgenin

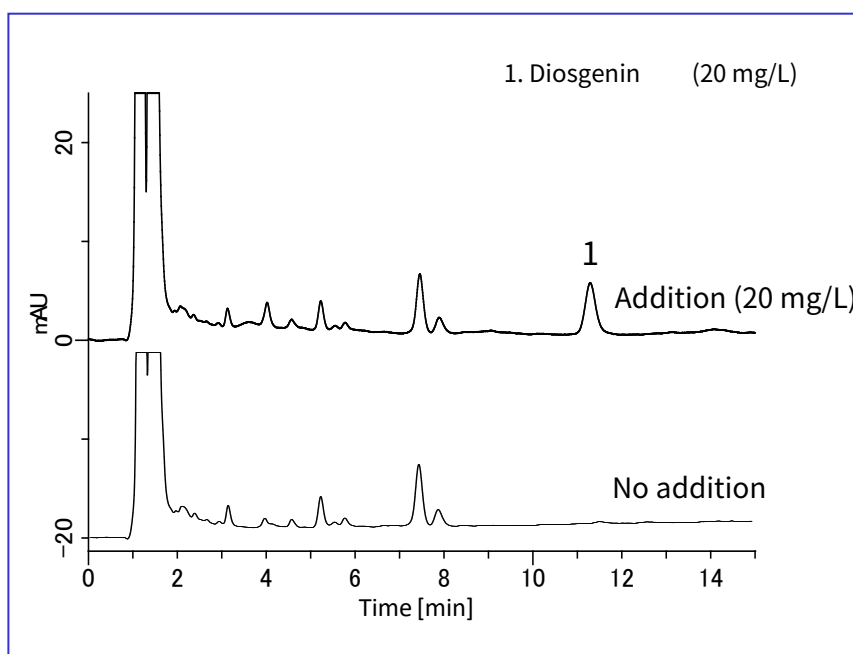
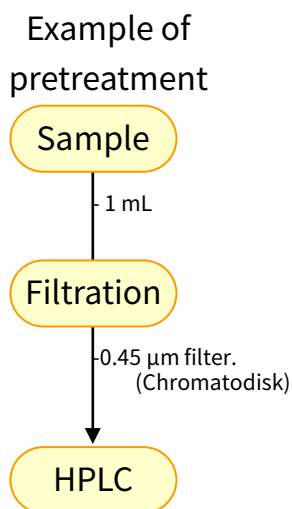
Structures are created using Chemistry 4-D Draw which is provided By ChemInnovation Software, Inc.

HPLC conditions

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

GL Sciences B.V.

Dillenburgstraat 7C
5652AM, Eindhoven
The Netherlands

Phone: +31-40-254-9531
Email: info@glsciences.eu
Web: 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
Web: www.glsciences.com.cn



International Distributors

Visit our Website at www.glsciences.com/distributors