

## CoreFocus Report

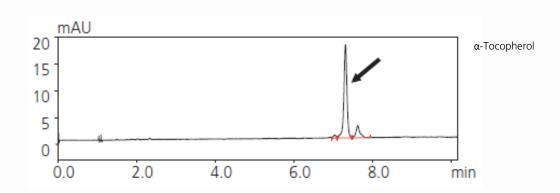
No.109

SFC

**Shim-pack Series** 

## Shim-pack<sup>™</sup> VP-ODS and Shim-pack UC-Choles **Analysis of Vitamin E in a Commercial** Supplement by Offline SFE-SFC-PDA

Keywords: fat-soluble vitamins, antioxidant



Offline SFE:

: Nexera™ UC SFE System

Extraction vessel 5 mL : CO<sub>2</sub> : 40 °C : 15 MPa Extraction solvent Temperature Back pressure Extraction time

(Static 2 min -> Dynamic 3 min) x 3 times

Trap & Pressure down condition
Trap column : Shim-pack VP-ODS (50 mm L. x 4.6 mm I.D., 5 μm), P/N : 228-36849-91

Temperature down time : 10 min ( 15 - 25 min)

**Recovery conditions** 

: n-hexane Elution solvent : 2 mL/min Flowrate **Temperature** 60 °C

: 3.5 min (25 - 28.5 min) Fraction time

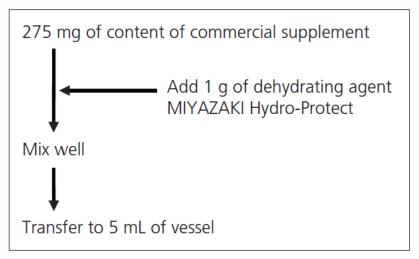
**SFC Condition** 

: Shim-pack UC-Choles (250 mm L. x 4.6 mm I.D., 5 µm), P/N : 227-32603-02 Column

Flowrate : 3 mL/min Modifier : 2 - propanol

Gradient : 2 % (0 min) - 20 % (10 min) - 50 % (10 - 12-min)

: 40 °C Temperature : 15 MPa Back pressure Injection volume : 2 µL



Preliminary Pretreatment for Supplement Sample before SFE

Source : Application News L501 (JP, ENG)

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