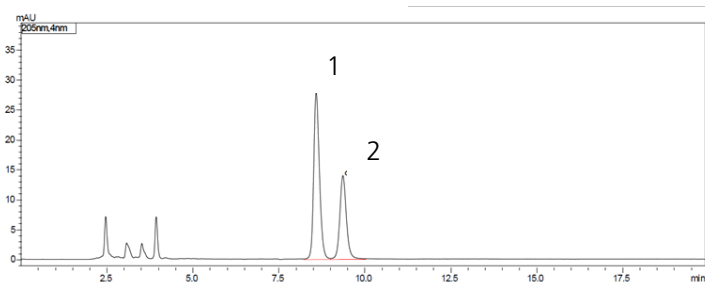


## Shim-pack Scepter™ Diol-HILIC-120

### Analysis of Levocarnitine Oral Liquid

**Keywords: Anthraquinones, L-Carnitine, antilipemic drug**

Chromatogram of Standard



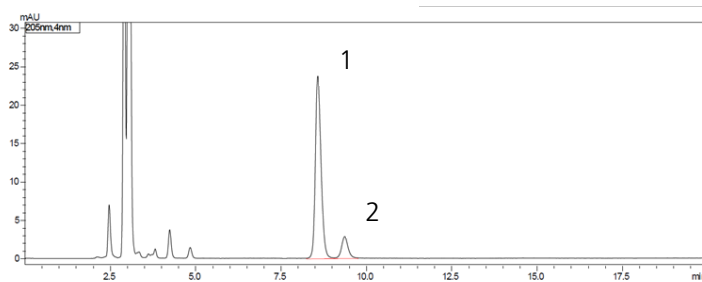
1. Aloe-Emodin 1,8-dihydroxy-3-(hydroxymethyl)anthraquinone
2. Impurity A

**Pretreatment procedure**

<Standard>

Measure 200  $\mu$ L of Levocarnitine mother solution (2 mg/mL, solvent: water) provided by the customer and 3  $\mu$ L of impurity A mother solution (0.5 mg/mL, solvent: water), add 800  $\mu$ L of Acetonitrile, and vortex to mix.

Chromatogram of Levocarnitine oral liquid



< Levocarnitine oral liquid >

Measure 300  $\mu$ L of Levocarnitine oral liquid test product mother solution (2 mg/mL, sample solvent: water) provided by the customer, add 700  $\mu$ L of Acetonitrile, and vortex to mix.

Column	: Shim-pack Scepter Diol-HILIC-120 (250 mm x 4.6 mm I.D., 5 $\mu$ m), P/N : 227-31051-06
Mobile phase	: A) 20 mmol/L Potassium dihydrogenphosphate aqueous solution containing Phosphorus acid (pH 4.35) B) Acetonitrile A : B = 25 : 75 (Isocratic elution)
Flow rate	: 1.0 mL/min
Column temp.	: 30°C
Injection vol.	: 20 $\mu$ L
Vial	: LabTotal™ Vial for LC/LCMS, P/N : 227-34001-01
Detection	: UV at 205 nm

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