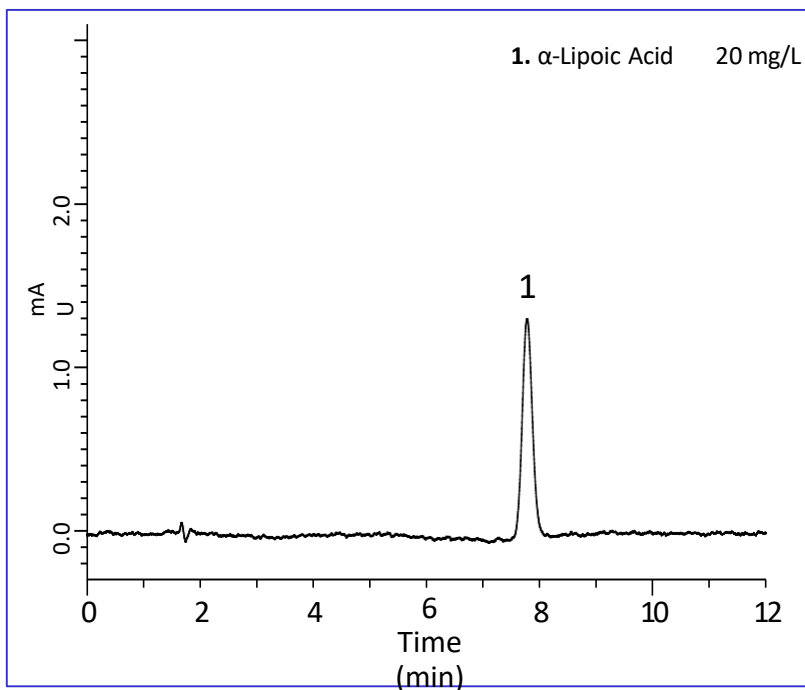


α -Lipoic acid (Thioctic acid) is not contained only trace amounts in food. However, this is an important coenzyme for energy generation and for working of other enzyme. In recent years, α -lipoic acid is containing as typical ingredient for anti-aging in many supplements and cosmetics.

In this technical note, we introduce a HPLC method to measure α -lipoic acid with UV detector and reversed phase column.

Standard Solutions



HPLC Conditions

Column : Inertsil ODS-3
(4 μ m, 150 \times 4.6 mm I.D.)

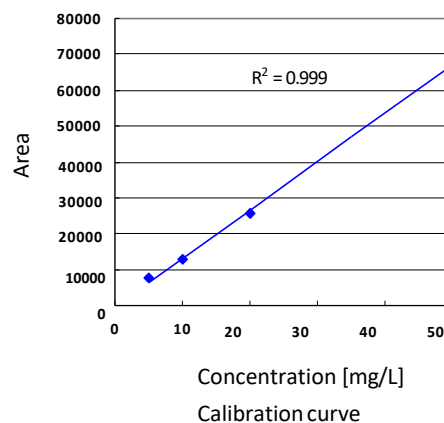
Eluent : A) CH₃OH
B) 20 mM KH₂PO₄ (pH 2.5, H₃PO₄)
A/B = 60/40, v/v
(Mixed by a gradient mixer)

Flow rate : 1.0 mL/min

Col. temp. : 40 $^{\circ}$ C

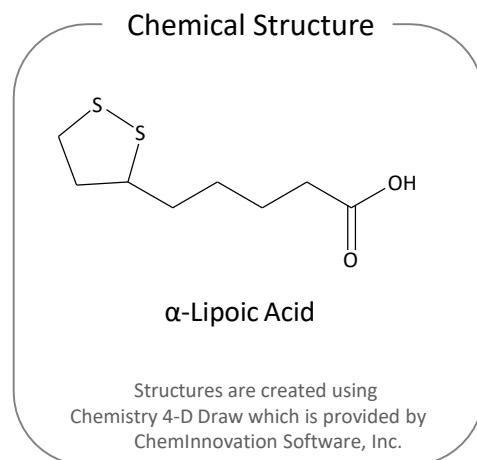
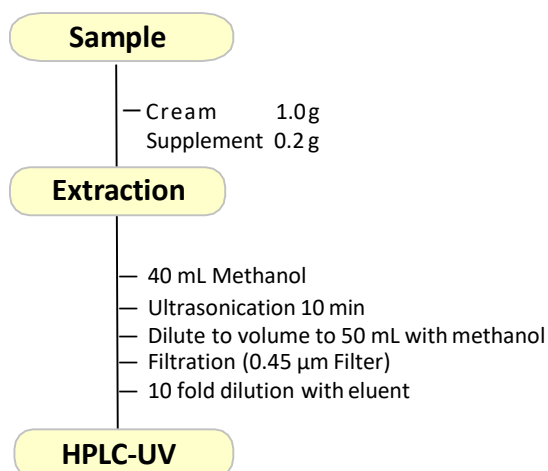
Detection : UV 333 nm

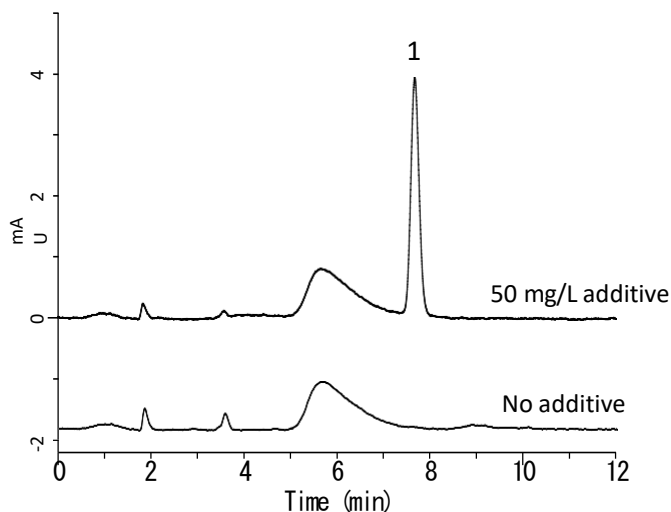
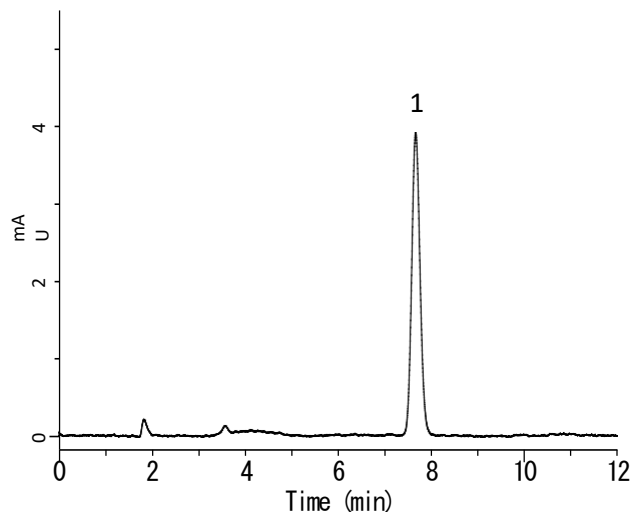
Inj. vol. : 20 μ L



Analysis of cream and supplement example

Sample preparation method example



Cream**Supplement**1. α -Lipoic Acid

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