

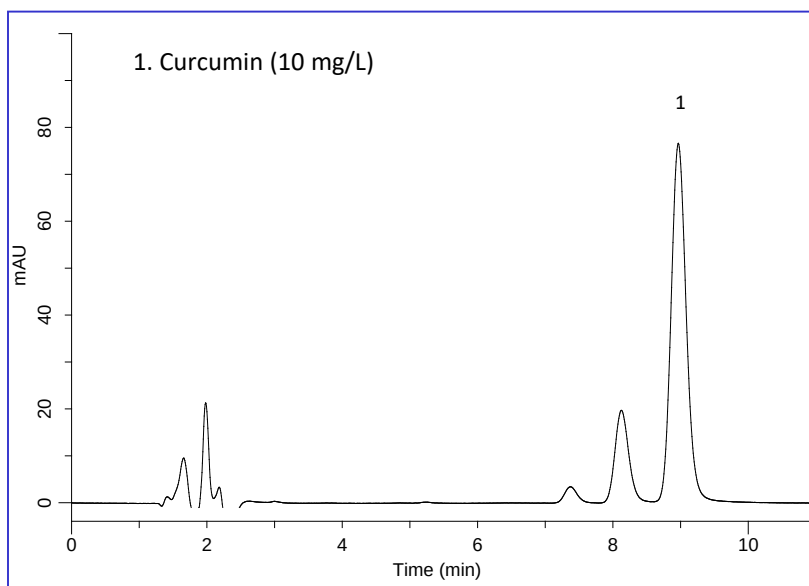
Curcumin, a yellow pigment found in turmeric, is a type of polyphenol. Curcumin, also known as turmeric (Turmeric) and is commonly used as a spice in foods such as curry. Indications include hangover prevention, as well as antioxidant and anticancer effects, bile secretion and strengthened liver function. It is also said to have anti-inflammatory properties.

In this application, the samples measured were nutrient drinks containing turmeric.

Commercially available curcumin reference standards may contain impurities, but the use of Inertsil ODS-4 has enabled good separation of the impurities from curcumin.

(Y.Tanaka)

Example: Measurement of standard



HPLC conditions

Column : Inertsil ODS-4
(5 μ m, 150 x 3.0 mm I.D.)

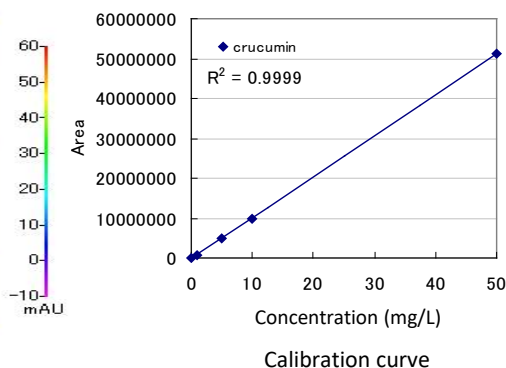
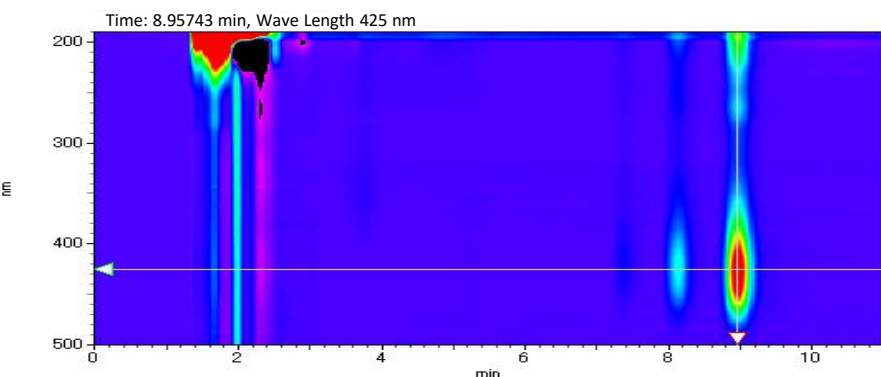
Eluent : A) CH₃CN
B) H₂O
A/B = 50/50, v/v
(Mixed by a gradient mixer)

Flow rate : 0.4 mL/min

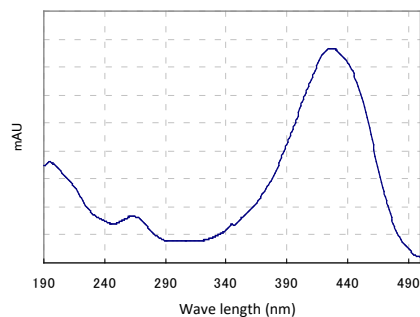
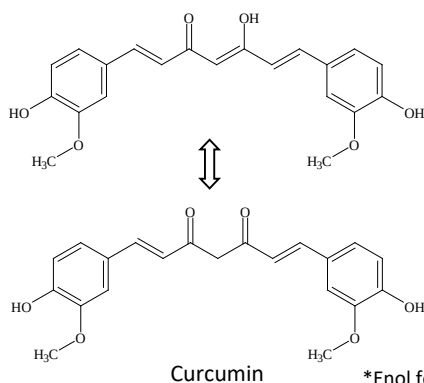
Column temperature : 40 °C

Detected : PDA 425 nm

Injection volume : 10 μ L



Structural formula and UV spectrum

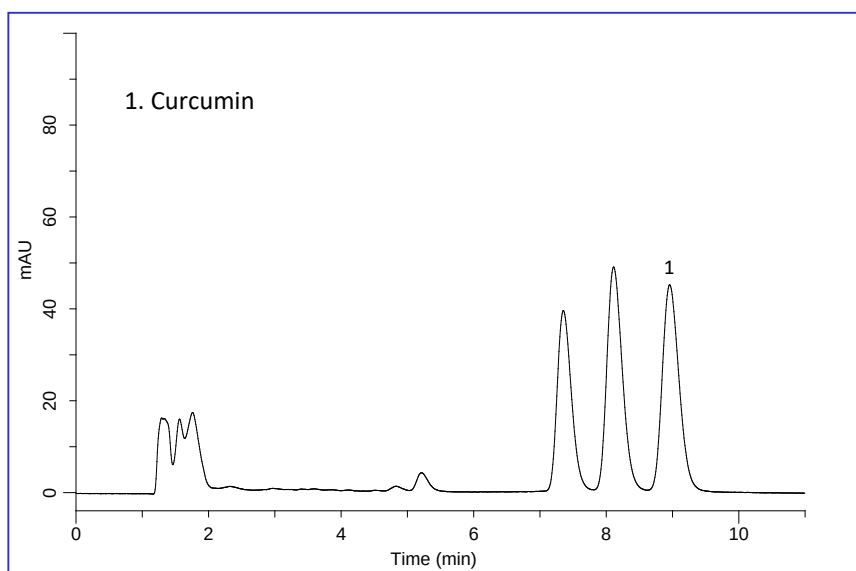


Measurement under analytical conditions

Example of analysis of nutrient drinks

Example of pretreatment

Samples were filtered through a 0.45 μm filter (chromatodisk) prior to injection.



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