# **Analysis of Curcumin in Nutrient Drinks**

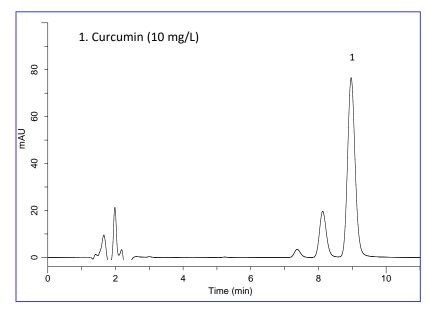
Curcumin, a yellow pigment found in turmeric, is a type of polyphenol. Curcumin, also known as turmeric (Turmeric) and is commonly used as a spice in foods such as curry. Indications include hangover prevention, as well as antioxidant and anticancer effects, bile secretion and strengthened liver function. 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 μm, 150 x 3.0 mm I.D.)

Eluent : A) CH 3 CN

B) H<sub>2</sub>O

A/B = 50/50, v/v

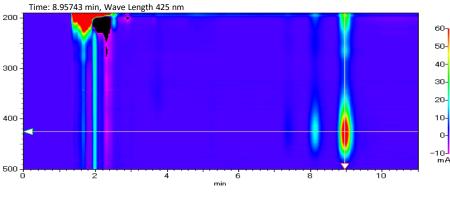
(Mixed by a gradient mixer)

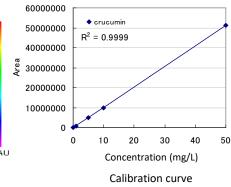
Flow rate : 0.4 mL/min

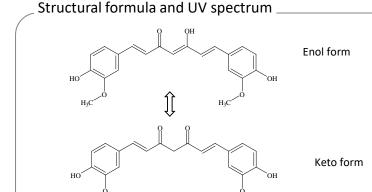
**Column temperature**: 40 °C

Detected : PDA 425 nm

Injection volume : 10 μL







Curcumin

190 240 290 340 390 440 490

Wave length (nm)

Measurement under analytical conditions

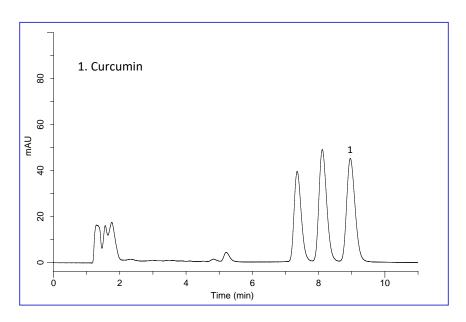


\*Enol form is stable in liquid

## **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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