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Analysis Example of Vitamin B₂ (Riboflavin)

Hitachi High-Tech

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 $C_{17}H_{20}N_4O_6 = 376.36$

 $H_3($

H₂(

AS/LC-038

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Vitamin B₂ (Riboflavin) is a physiologically-active substance classified as a water-soluble vitamin. While it may exist in the form of phosphate ester, it is absorbed as free riboflavin in bodies. The actions of vitamin B₂ include growth stimulation and skin and mucosal protection, and vitamin B₂ deficiency is known to cause growth disorder, skin inflammation, canker sore, etc.

Vitamin B₂ is highly contained in dairy products and natto. It is also contained in green vegetables. Vitamin B_2 is easily destroyed when exposed to light and thus, it is important to keep it away from sunlight, etc. In addition to its presence in food, vitamin B₂ is added to food and fodder for nutritional enhancement or as a colorant. It is also used as a drug. The analysis method is described in literatures such as the official methods for food, the test methods for food and feed additives, and Japanese Pharmacopoeia.

This time, the analysis was performed by using Chromaster, Hitachi High Performance Liquid Chromatograph, in accordance with the "High Performance Liquid Chromatograph Method," which is one of the analysis methods described in the Standard Methods of Analysis in Food Safety Regulation (*). A fluorescence detector is used for the detection.

(*)Standard Methods of Analysis in Food Safety Regulation, Chemistry (Japan Food

Analysis Examples of Vitamin B1 Standard Sample and Supplement Drink



NOTE: These data are an example of measurement; the individual values cannot be guaranteed.

