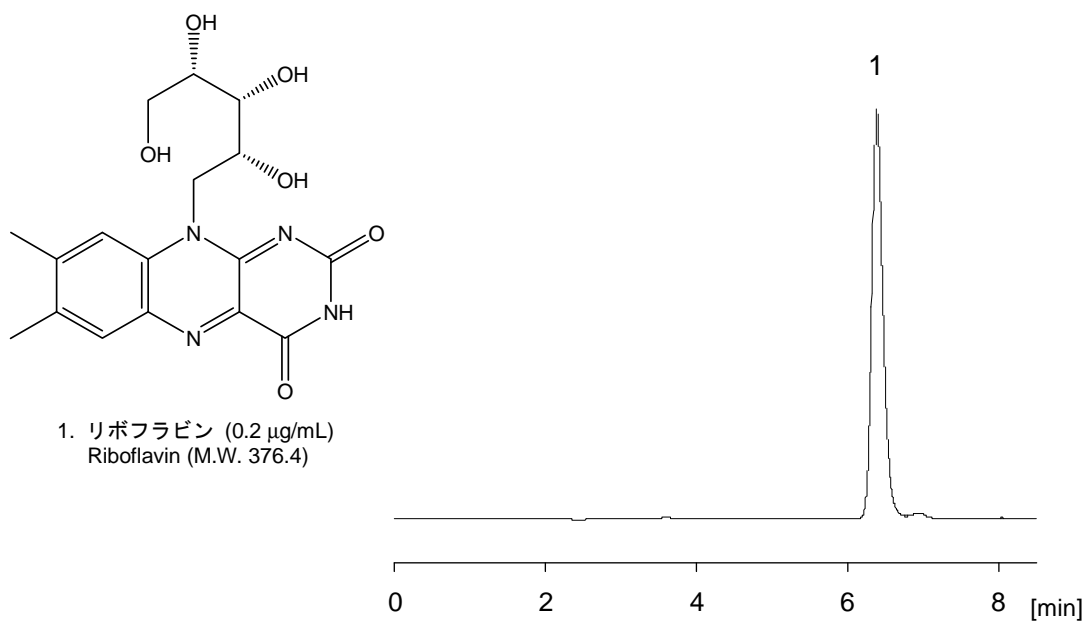


リボフラビン (ビタミン B₂)

Riboflavin (Vitamin B₂)

リボフラビンは水溶液中で黄色を呈し、食品添加物などにも広く用いられる水溶性のビタミンです。中国国家標準 GB5413.12-2010 に従い実施した CAPCELL PAK C₁₈ MG S5 (4.6 mm i.d. x 250 mm) を用いたリボフラビン (ビタミン B₂) の分析例を示します。良好なピーク形状で十分な保持が得られました。

Riboflavin, a food additive showing yellow color in aqueous solutions, is categorized as one of the hydrophilic vitamins. The following chromatogram was obtained according to the method described in the Chinese Governmental Standards, GB5413.12-2010, using CAPCELL PAK C₁₈ MG S5 (4.6 mm i.d. x 250 mm). Adequate retention and a good peak profile were obtained.



【HPLC Conditions】

Column	: CAPCELL PAK C ₁₈ MG S5 ; 4.6 mm i.d. x 250 mm
Mobile phase	: 50 mmol/L CH ₃ COONa (adjusted at pH 4.7 with acetic acid) / CH ₃ OH = 65 / 35
Flow rate	: 1.0 mL/min
Temperature	: 40 °C
Detection	: FL Ex. 462 nm, Em. 522 nm
Inj. vol.	: 20 µL
Sample dissolved in	: Mobile phase
	※ 1 µg/mL = 1 ppm