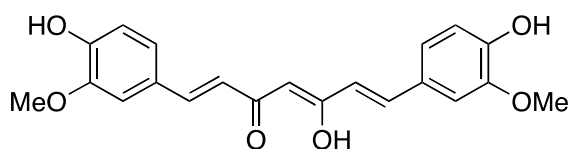


## Curcumin



Curcumin

【化合物】 Curcumin

【測定機器】 HPLC

【対象】 動物（ラット）

【代謝実験】 Separate sets of animals (150 - 160 g) were orally administered the three spice principles at dosages of 30 mg (capsaicin), 170 mg (piperine) and 500 mg (curcumin) / kg body weight. The tissue concentrations of administered spice compounds were determined by HPLC. Curcumin concentration was maximum in the intestine at 1 h; maximum in blood at 6 h and remained at significantly higher level even at 24 h. About 63.5 per cent of the curcumin dose was absorbed. Only a small portion of the administered dose of capsaicin (< 0.1%) and curcumin (0.173 %) was excreted in urine. Enhanced bioavailability of curcumin was evidenced when the same was orally administered concomitant with piperine. Intestinal absorption of curcumin was relatively higher when administered concomitantly with piperine, and it stayed significantly longer in the body tissues. Intact curcumin was detected in brain at 24, 48 and 96 h with a maximum at 48 h. Bioavailability of curcumin can be improved by co-administration with piperine. [Suresh et al., *Indian J Med Res* **131**, 682-691 (2010)]

【参考文献】

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