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Photochemical Isomerization of Piperine, a Pungent Pepper

Keiji HASHIMOTO¹⁾, Tsutomu YAOI¹⁾, Hiroyuki KOSHIBA¹⁾, Takashi MAOKA¹⁾, Yasuhiro FUJIWARA¹⁾, Yasuo YAMAMOT MORI³⁾

- 1) Kyoto Pharmaceutical University
- 2) Sonoda Women's College
- 3) Hyogo Women's College

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A separation method for piperine and its isomers (chavicine, isocha from a photoirradiated mixture of piperine, in solution and in susper performance liquid chromatography (HPLC), was investigated to cl between the disappearance of the pungency in older, ground pepper photoisomerization of piperine. Piperine and its isomers were separ OA-2000 column with hexane/dichloromethane/ethanol (48/16/0.8)

Their structural elucidation was carried out using nuclear magnetic and HPLC atmospheric pressure chemical ionization mass spectro Although the increment in the three isomers in commercial ground sunlight was observed by monitoring the MH⁺ ion on LC/APCIMS varied very little. It is questionable whether the disappearance of th ground pepper is derived from the formation of tasteless isomers by in piperine.

Keywords: pepper, *Piper nigrum* L., piperine, photochemical iso NMR

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