



## Determination of Six Lignans in *Saururus chinensis* Rhizome from Different Harvesting Seasons by HPLC-DAD

Hongjiang CHEN<sup>1,2</sup>, Yong CHEN<sup>1</sup>, Jianwei CHEN<sup>1</sup>, Baochang CAI<sup>1</sup> & Xiang LI<sup>1</sup> \*

<sup>1</sup> College of Pharmacy, Nanjing University of Chinese Medicine, Nanjing, 210046, China

<sup>2</sup> College of Chinese Medicine, Zhejiang Pharmaceutical College, Ningbo, 315100, China

**SUMMARY.** A high-performance liquid chromatography-photodiode array was employed to simultaneously determine six lignans, namely saucermetin (1), sauchinone (2), rel-(7R,8R,7'R,8'R)-3',4'-methylenedioxy-3,4,5,5'-tetramethoxy-7,7'-epoxylignan (3), saucermetin-8 (4), saucerneol D (5) and saucermetin-7 (6) in *Saururus chinensis* rhizome from different harvesting seasons. The results indicated that the established HPLC-DAD method could be considered as a suitable quality control method for *S. chinensis* rhizome. The samples harvested in May, August and November contain higher contents of lignans than other months, and the best harvesting season of *S. chinensis* rhizome might be in November.

**RESUMEN.** Se utilizó una matriz de cromatografía líquida de alta resolución de fotodiodos para determinar simultáneamente seis lignanos, a saber saucermetina (1), sauchinona (2), rel-(7R,8R,7'R,8'R)-3',4'-metilendioxi-3,4,5,5'-tetrametoxi-7,7'-epoxilignano (3), saucermetina-8 (4), saucerneol D (5) y saucermetina-7 (6) en rizomas de *Saururus chinensis* de diferentes estaciones de cosecha. Los resultados indicaron que el método HPLC-DAD establecido podría considerarse como un método de control de calidad adecuado para el rizoma de *S. chinensis*. Las muestras cosechadas en mayo, agosto y noviembre contienen mayores contenidos de lignanos que otros meses y la mejor estación de cosecha del rizoma de *S. chinensis* podría ser en noviembre.

**KEY WORDS:** accumulation regularity, HPLC-DAD, *Saururus chinensis* rhizome, simultaneous quantification.

\* Author to whom correspondence should be addressed. *E-mail:* lixiang\_8182@163.com