

The Separation and Purification of Ellagic Acid from *Phyllanthus urinaria* L. by a Combined Mechanochemical-Macroporous Resin Adsorption Method

Zili Guo, Shuting Xiong, Yuanyuan Xie and Xianrui Liang *

Collaborative Innovation Center of Yangtze River Delta Region Green Pharmaceuticals,
College of Pharmaceutical Sciences, Zhejiang University of Technology, Hangzhou,
310014, China

***Correspondence:** Dr. Xianrui Liang, Collaborative Innovation Center of Yangtze River Delta Region Green Pharmaceuticals, College of Pharmaceutical Sciences, Zhejiang University of Technology, Hangzhou, 310014, China.

Email: liangxrvicky@zjut.edu.cn

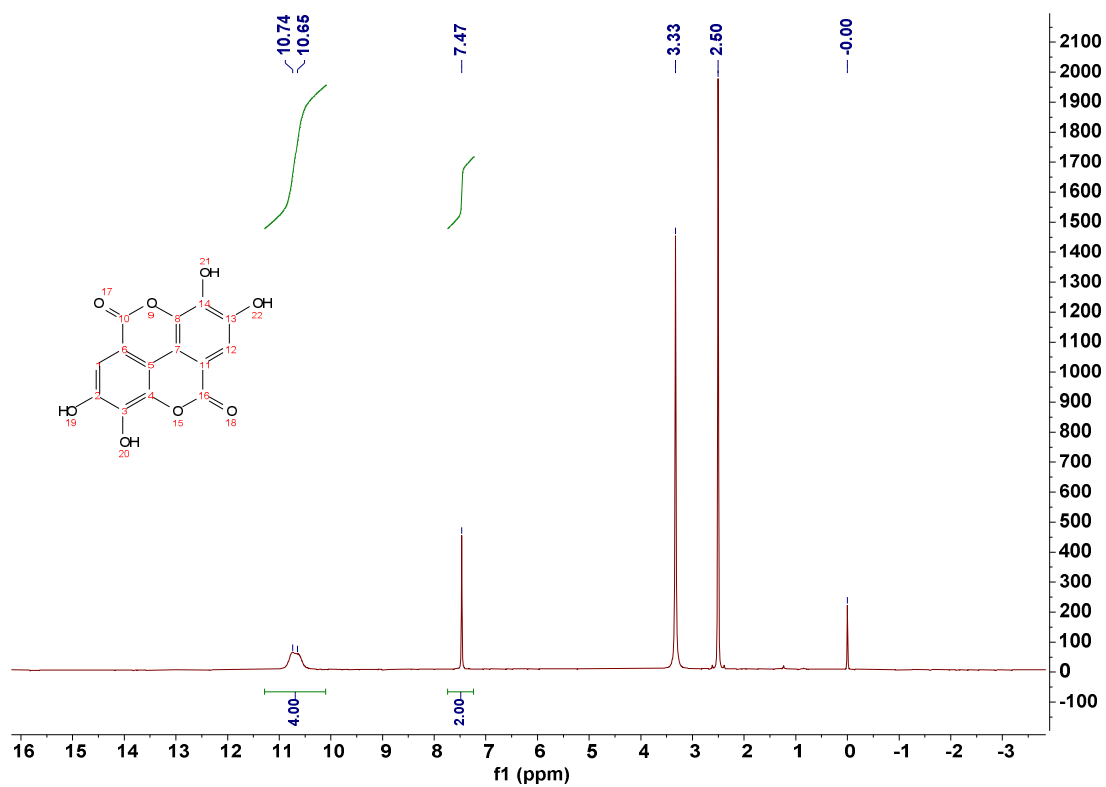


Figure S1. The ^1H NMR spectrum of ellagic acid.

^1H NMR (600 MHz, DMSO): δ 10.70 (br, 4H), 7.47 (s, 2H).

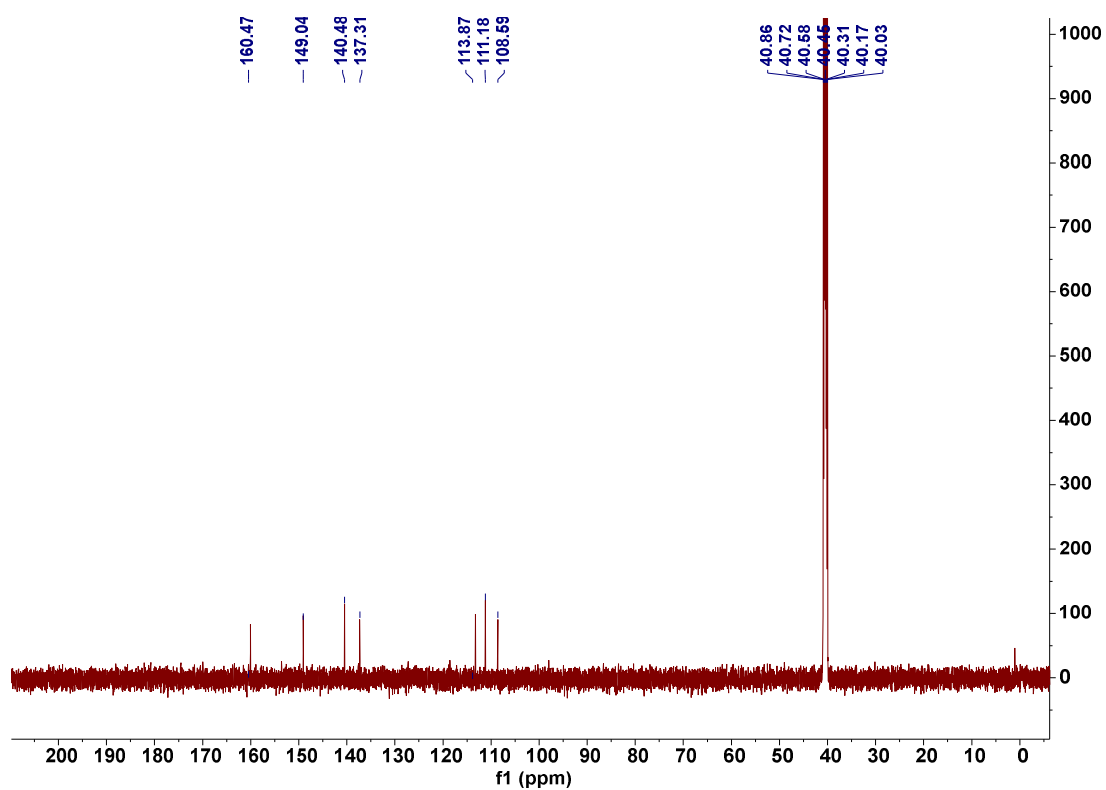


Figure S2. The ^{13}C NMR spectrum of ellagic acid.

^{13}C NMR (151 MHz, DMSO): δ 160.47, 149.04, 140.48, 137.31, 113.87, 111.18, 108.59.

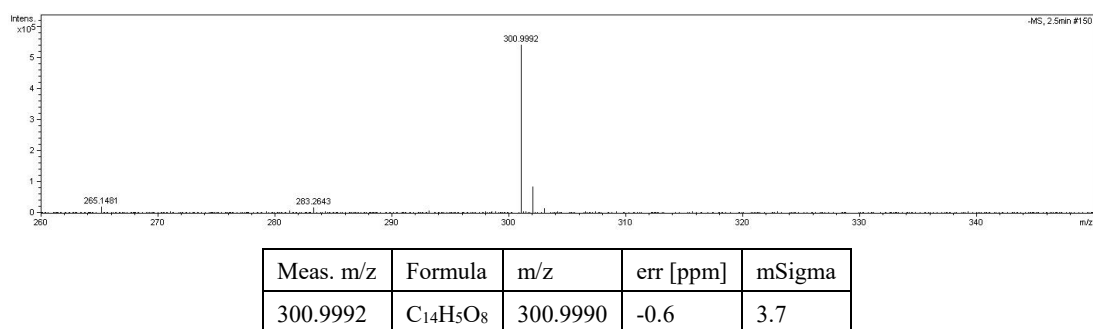


Figure S3. The MS spectrum of ellagic acid.

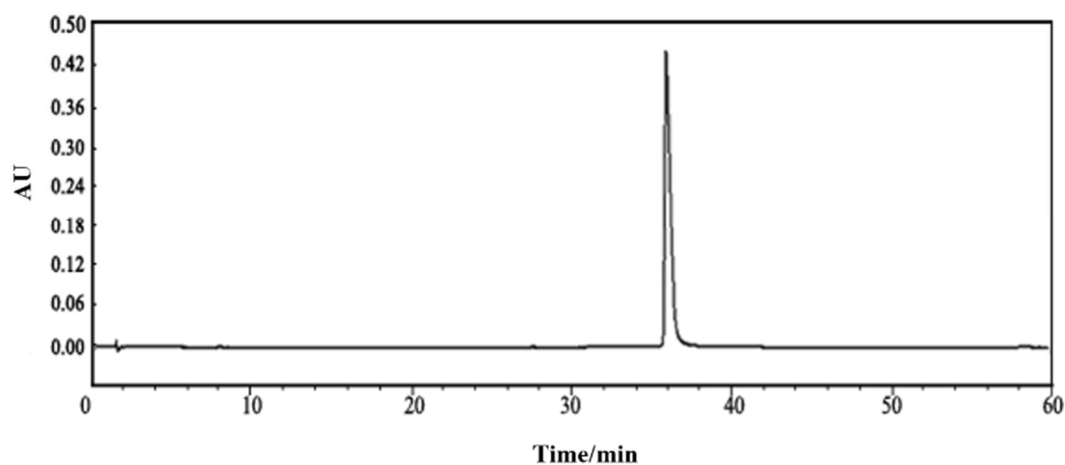


Figure S4. UPLC chromatogram of ellagic acid.

Table S1. Calibration curves, linear ranges, LODs, LOQs, precision, repeatability, stability and recovery of 5 standards compounds.

Compounds	Corilagin	Geraniin	Ellagic acid
Linear Range (mg/mL)	0.033-0.965 (R ² , 0.9999)	0.068-2.978 (R ² , 0.9989)	0.010-0.200 (R ² , 0.9998)
LOD (µg/mL)	1.16	4.02	3.08
LOQ (µg/mL)	4.19	12.06	7.69
Precision (RSD%)	1.28	0.42	0.49
Repeatability (RSD%)	4.67	6.15	5.85
12 h-Stability (RSD%)	4.83	3.25	5.37
Mean Recovery % (RSD%)	93.70 (7.10)	102.30 (5.30)	107.00 (6.10)