Short Communication

Detection Aristolochic Acids 1 and 2 in Costustoot via Electrochemical Method and Liquid Chromatography

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Aristolochic acids (1 and 2), a component in medicinal plants, have been reported as the cause of end-stage renal failure. For the identification and quantity determination of aristolochic acid 1 and 2 (AA-1 and AA-2) in *Radix Aucklandiae*, a liquid chromatography with electrochemical detection system was constructed in this paper. Both of the chromatographic peak heights for AA-1 and AA-2 at the detection potential of -0.8 V were found to be related linearly with the concentrations ranging from 10 ng/mL to 50 µg/mL. The limit of detection (S/N = 3) of AA-1 and AA-2 are 3.7 and 3.4 ng/mL, respectively.

Keywords: Electrochemical method; Aristolochic acid; *Radix aucklandiae*; Liquid chromatography;

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