天然产物研究

高效液相色谱/电喷雾-离子阱/飞行时间质谱法分析鉴别人参中的皂苷 类成分

董静

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摘要

关键词

分类号

Identification and Determination of Major Constituents in Supporting info Chinese Herbal Medicine Panax Ginseng by HPLC/ESI-IT/ **TOFMS**

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Abstract A facile method using high performance liquid chromatography/electrospray ionization i on trap/time-of-flight mass spectrometry(HPLC/ESI-IT/TOFMS) was established for the analysi s of multiple constituents in Panax Ginseng. Chemical standards of ginsenoside Rg1 and Rb1 wer e studied systematically, and their fragmentation pathways were concluded. Methanol extracts o f Panax Ginseng were separated and analyzed in negative mode by HPLC/ESI-IT/TOFMS. A to tal of 10 constituents are identified or tentatively characterized with supporting results on the frag mentation pathways of ginsenosides chemical standards and relative references. These constitue nts include ginsenoside Rg1, Re, Rb3, Rg2, Rb1, Rc, Rh1, Rb2, Rd and Rg3. Besides ginsenosid es, several compounds with m/z 317 parent nucleus are also analyzed. Using the HPLC/ESI-IT/T OFMS is an extremely simple way to provide chemical information concerning the constituents i n herbal medicines and makes the identification results more convinced.

fragmentation pathways **Key words** ginsenoside constituents identification ionization ion trap/time-of-flight mass spectrometry(ESI-IT/TOFMS)

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