Medicinal Material Information

Material Name: Radix et Rhizoma Ginseng, Folium Ginseng, Radix et Rhizoma Ginseng Fu (R)(人参, 人参根, 人参叶)
Species: Panax ginseng (人参)
Family: Araliaceae (五加科) Type: Plant
Medical Part: Dried root, dried leaf (dried and dried root of the cultivated (干黄) and wild (干红) varieties)
Pharmacopoeia: Pharmacopoeia of PRC
CITES: Convention on International Trade in Endangered Species
Adjuvant: Mirabilis jalapa (click to search)

Sequence Information

Clone Number:

Forward Primer: 5' 5'- CACACOCT CCCCTCTCTACCA - 3'
Reverse Primer: 5' 5'- CCTCCCTCCCTCTCTACCA - 3'
Amplification Temperature: 94°C
Extraction Time: 30 minutes
Minimizes NO of Corrected M

Reference Information

PMID: 13192584

Abstract

Using conserved plant sequences as primers, the DNA sequences in the ribosomal ITS-1,5.8S ITS2 region have been amplified and determined for six Panax species: P. ginseng C. A. Mey. (oriental ginseng), P. quinquefolius L. (American ginseng), P. notoginseng (Burkill) F. H. Chen (Sanchi), P. japonicus C. A. Mey. (Japanese ginseng), P. trifolius L. and P. major T. T. Ling, as well as two common adulterants of ginseng, Mirabilis jalapa L. and Phytolacca acmella Poir. An authentication procedure based upon the restriction fragment length polymorphism (RFLP) in the region is able to differentiate between P. ginseng and P. quinquefolius, and to discriminate the ginsenos from the two common poisonous adulterants. Broader application of this approach to authenticate other morphologically similar Chinese medicinal materials is rationalized.