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Medicinal Material Information

Material Name: RADIX ET RHIZOMA GINSENG; FOLIUM GINSENG; RADIX ET RHIZOMA GINSENG RUBRA (人参, 人参叶, 红参)

Species: Panax ginseng. (人参)

Family: Araliaceae (五加科) **Type:** Plant

Medical Part: Dried root; Dried leaf; Steamed and dried root of the cultivar (干燥根及根茎, 干燥叶, 栽培品经蒸制后的干燥根及根茎)

Pharmacopeia information: Pharmacopoeia of PRC

CITES (Convention on International Trade in Endangered Species):-

Adulterant: Mirabilis jalapa (click to search)

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Sequence Information

Get sequence

Similar Sequences:

Choose Similar Sequence

Clone Number:-

Voucher Number: P. ginseng: China (中国)

>mmdbd100013516|Panax ginseng|Internal transcribed spacer|-

ACTCGCCGTTACTAGGGGAATCCTTGTAACTTTCTTTCTCCGCTTATTGATATGCTTAACTCAGCGGGTAGTCCCGC
GCACCTGGGGTCGCGGTCGGAGCGACGTGAGGACGGCGCAACAGGGTCATGAGAGCTTTTCTGGCGACGGGTCACC
GCACGACATGAGAAGAGGGCTTTTACACCACTTGTCTGATGCTCATCGCAAGGACTCGCATTTGGGCCAACCG
CGCGGTGAGACACGGGAGGCCATTATCCGCCCTCCGCTCAACTCCCGCAAGGGAGTGATGGGTTGGGGGGCAGCGCA
TGCCTGACGCCAGGCGAGCGTGCCCTCGGCCTAATGGCTTCGGGCGCAACTTGGCTTCAAGAGCTCGATGGTTACAGGG
ATTCTGCAATTCACACCAAGTATCGATTTCTGCTACGTTTTCATCGATGCGAGAGCCGAGATATCCGTTGTCGAGAGTC
GTTTGTTGTTTTAGAAAGACGCTTCGCGCGCCCGCAACAGGGGGGAGCGCTGCAAGTTTCAGTTTGATTTCCTTGGCGCATT
CCGCGCCCGGGGGTGCTGTTGTCGAGAGATCCACCAAGGGTGTCCTCCGACCATGGGTTTGCAACTTGGGGAGCTTGC
GCACCCCTCGTCCCTCACCGGTAATTGTAACGTGTTCCGGGGTGCTGCTGATGCAAGTTTGCACATGATCCTTCCGC
AGGTTACCTACGGAACCTTGTACGACTTCTCCTTCTCTAAATGATAAGGTTCAAGTGGACTTCTTTCGACGTCGCGG
GCAGCGAACCGCCACGTGCGCGCAATCCGAACACTTACCGGACCATTAATCGGTAGGAGCGACGGGCGGTGTG

Forward Primer: (18d) CACACCGCCGCTCGCTCCTACCGA **Reverse Primer:** (28cc) ACTCGCCGTTACTAGGGGAA

Annealing Temp: 60°C **Extension Time:** 120 seconds **No of Cycles:** 35

b

Reference Information

Ngan, F et al. Molecular authentication of Panax species **Phytochemistry** 50(5), 787-91 (1999) NCBI PMID: [10192964](https://pubmed.ncbi.nlm.nih.gov/10192964/)

Abstract

Using conserved plant sequences as primers, the DNA sequences in the ribosomal ITS1-5.8S-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 Ting, as well as two common adulterants of ginseng, Mirabilis jalapa L. and Phytolacca acinosa Roxb. 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 ginsengs from the two common poisonous adulterants. Broader application of this approach to authenticate other morphologically similar Chinese medicinal materials is rationalised.

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