

Fact sheet of reference DNA sequences of *Saposhnikovia divaricata* (防風)

Summary	Information
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Type of reference material used for data generation	● Radix Saposhnikoviae (防風) ● Plant voucher specimen
Radix Saposhnikoviae (防風) (number of specimens / locality)	● 15 / Changyi District, Jilin Province, China ● 2 / Jilin Province, China
Plant voucher specimen (number of specimens / locality)	● 1 / Changyi District, Jilin Province, China ● 2 / Jilin Province, China
Total number of specimen	● 20
Specimen source	● GCMTI collection ● Hong Kong Chinese Materia Medica Standards (HKCMMS) Project
Method for data generation	● GCMTI RD-5:2020 (Minor modification for generation of ITS2)

	required, see Appendix)
Length of DNA barcode	● Nuclear internal transcribed spacer 2 (ITS2) is 229–231 bp ● Chloroplast <i>psbA-trnH</i> intergenic spacer (<i>psbA-trnH</i>) is 266 bp ● Chloroplast ribulose biphosphate carboxylase large chain (<i>rbcL</i>) is 553 bp

Appendix**Modified PCR cycling condition for amplification of ITS2**

Temperature	Time	No. of Cycles
94°C	5 min	1
94°C	30 sec	30
56°C	30 sec	
72°C	45 sec	
72°C	10 min	1
4°C	∞	--

Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210809

>RD616-10B ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI210809

>RD616-10B_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTCA
GACTGTTTTAAATAAACAAATACTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210809

>RD616-10B_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-10B
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-11A ITS2
CGCWTCTGCTTTGCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAGACCC
TCTTCTCTTGTCGCGCGAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Remarks: observations at nucleotide position 4

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-11A_psbA-trnH
ATAACTTTCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTAGTATATACGA
GTTTTTGAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTTCTCTTTTATATTCA
GACTGTTTTAAATAAACAATACTTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAA
GAAAATTAGCGGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-11A_rbcL
AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACCTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TTAAAACCTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCCTCCCTG
TTGGGATGTACTATTAACCTAAATTGGGGTTATCCG
CTAAAACCTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-11A
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	ITS2: 4W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-12B ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-12B_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTTCA
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-12B_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

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Sample mark	RD616-12B
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-13A ITS2
CGCWTCTGCTTTGCCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAGACCC
TCTTCTCTTGTCGCGCGAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Remarks: observations at nucleotide position 4

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-13A_psbA-trnH
ATAACTTTCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTAGTATATACGA
GTTTTTGAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTTCTCTTTTATATTCA
GACTGTTTTAAATAAACAATACTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAA
GAAATTAGCGGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-13A_rbcL
AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TTAAAACCTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCCTCCCTG
TTGGGATGTACTATTAACCTAAATTGGGGTTATCCG
CTAAAACCTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-13A
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	ITS2: 4W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-14A ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-14A_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTTC
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-14A_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-14A
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-16A ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-16A_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTTC
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-16A_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikoviae
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-16A
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-19A ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-19A_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGTATTCTCTTTTATATTTC
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-19A_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-19A
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210809

>RD616-2A ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI210809

>RD616-2A_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTTCTTTTATATTTC
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAAA
GAAAATTAGCGGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210809

>RD616-2A_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAAGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-2A
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-24A ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-24A_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTTCTCTTTTATATTTCA
GACTGTTTTAAATAAACAAATACTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-24A_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAAGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikoviae
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
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Sample mark	RD616-24A
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Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-25B ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-25B_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTTC
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-25B_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAAGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-25B
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-26B ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-26B_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTTC
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-26B_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-26B
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-28A ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-28A_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTTCTCTTTTATATTTCA
GACTGTTTTAAATAAACAAATACTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-28A_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikoviae
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-28A
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210809

>RD616-3A ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAGAACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI210809

>RD616-3A_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTTC
GACTGTTTTAAATAAACAATACTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210809

>RD616-3A_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TTAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-3A
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI211020

>RD616-30B ITS2

CGCWTCGTCTTTGCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAGACCC
TCTTCTCTTGTGCGCGAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Remarks: observations at nucleotide position 4

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI211020

>RD616-30B_psbA-trnH

ATAACTTTCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTAGTATATACGA
GTTTTTGAATAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTTCTCTTTTATATTCA
GACTGTTTTAAATAAACAAATACTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAA
GAAATTAGCGGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI211020

>RD616-30B_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TTAAAACCTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACCTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-30B
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	ITS2: 4W

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210809

>RD616-8A ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI210809

>RD616-8A_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTTC
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210809

>RD616-8A_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD616
Sample mark	RD616-8A
Locality	Changyi District, Jilin Province, China
Corresponding voucher specimen	RD655
Authenticated	Yes
Remarks	-

Image

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210827

>RD617-3D ITS2

CGCATCGTCTTTGCCACAGACCACTCACACCTGAGA
AGTTGTGTGTAGTTTGGGGGCGGAACTAGCCTCCC
GTACCTTGTCTGCGGTTGGCGGAAAAACCAGTCTCC
GGCGACGGATGTCGCGACATCGGTGGTTGTAAGA
CCCTCTTCTCTTGTGCGCGGAATCCTCGTCATCTTAGA
GAGATCCAGGACCCTTAGGCAGCACACACTCTGTGCG
CTTCGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI210827

>RD617-3D_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTTC
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210827

>RD617-3D_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD617
Sample mark	RD617-3D
Locality	Jilin Province, China
Corresponding voucher specimen	RD656, RD657
Authenticated	Yes
Remarks	-

Image

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210827

>RD617-6D ITS2

CGCATCGTCTTTGCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI210827

>RD617-6D_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTTC
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAAA
GAAAATTAGCGGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210827

>RD617-6D_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Radix Saposhnikovia
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD617
Sample mark	RD617-6D
Locality	Jilin Province, China
Corresponding voucher specimen	RD656, RD657
Authenticated	Yes
Remarks	-

Image

Front view



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Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210723

>RD655-1C ITS2

CGCWTGCTCTTTGCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Remarks: observations at nucleotide position 4

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI210723

>RD655-1C *psbA-trnH*

ATAACTTTCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGCCGGGTTTAGTATATACGA
GTTTTTGAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTTCTCTTTTATATTCA
GACTGTTTTAAATAAACAATACTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAA
GAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210723

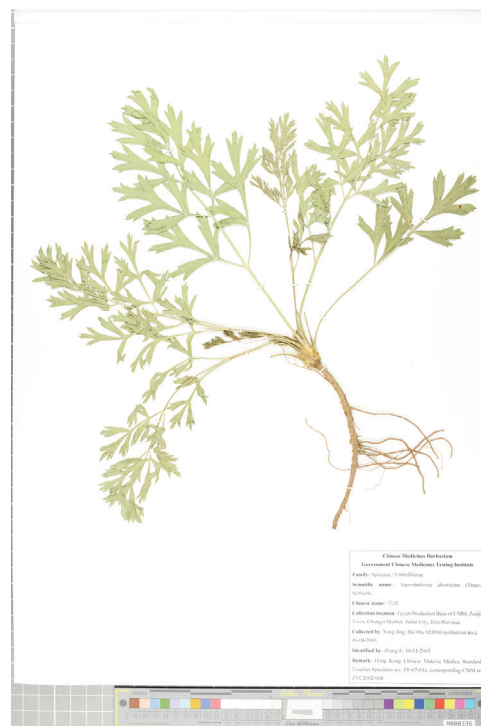
>RD655-1C *rbcL*

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAAGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Plant specimen
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD655
Sample mark	RD655-1C
Locality	Changyi District, Jilin Province, China
Corresponding CMM	RD616
Authenticated	Yes
Remarks	ITS2: 4W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210723

>RD656-1D ITS2

CGCATCGTCTTTGCCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAAAGACCC
TCTTCTCTGTGCGCGGAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI210723

>RD656-1D_psbA-trnH

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAAGCTCCA
TCTACAAATGGGTAAAGACCGGGTTTAGTATATACGA
GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTTCTTTTATATTTCA
GACTGTTTTAAATAAACAAATACCTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210723

>RD656-1D_rbcL

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACCTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTAGGTAATGTATTTGGGTTCAAAGCCCTGCGCGCT
CTACGTCTGGAAGATCTGCGAATCCCCGTTGCTTATG
TAAAACTTTCCAAGGACCGCCTCATGGCATCCAAGT
TGAGAGAGATAAATTGAACAAGTACGGTCGTCGCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Plant specimen
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD656
Sample mark	RD656-1D
Locality	Jilin Province, China
Corresponding CMM	RD617
Authenticated	Yes
Remarks	-

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Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210723

>RD657-1D ITS2

CGCATCGTCTTTGCCACAGACCACTCACACCTGAGA
AGTTGTGTAGGTTTGGGGGCGGAACTAGCCTCCCGT
ACCTTGTCGTGCGGTTGGCGGAAAAACGAGTCTCCGG
CGACGGATGTCGCGACATCGGTGGTTGTAAGACCC
TCTTCTCTGTGCGCGCAATCCTCGTCATCTTAGAGAG
ATCCAGGACCCTTAGGCAGCACACACTCTGTGCGCTT
CGACTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI210723

>RD657-1D *psbA-trnH*

ATAACTTTCCTCTAGACCTAGCTGCTGTTGAAGCTCCA
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GTTTTTTGAAATAAAAAAAGCAATACCGCCCCCTTGT
TCTATCAAGAGGGCGGTATTCTCTTTTATATTTCA
GACTGTTTTAAATAAACAATACTTTGAATGATCAA
AAAGGAATCCTTTATTTATTTAATAAATAAATAAA
GAAAATTAGCGGGCGGATGTAGCCAAGTGGATCAA
GGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210723

>RD657-1D *rbcL*

AGGTGTTGGATTCAAAGCTGGGGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGAAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACCTCCTCAACC
TGGAGTTCCACCCGAAGAAGCGGGGGCCGCGGTAGC
TGCCGAATCTTCTACTGGTACATGGACCACTGTGTGG
ACCGATGGACTTACCAGCCTTGATCGTTACAAAGGGC
GCTGCTACGGAATCGAGCCCCGTTGCTGGAGAAGAAA
ATCAATATATCGCTTATGTAGCTTACCCATTAGACCTT
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Reference Detail

Description of reference material	Plant specimen
Scientific name	<i>Saposhnikovia divaricata</i> (Turcz.) Schischk.
Laboratory number	RD657
Sample mark	RD657-1D
Locality	Jilin Province, China
Corresponding CMM	RD617
Authenticated	Yes
Remarks	-

Image



Reference DNA sequences in FASTA format

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2) sequence of plant voucher specimen of *Saposhnikovia divaricata* and Chinese Materia Medica (CMM) *Radix Saposhnikoviae*

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Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*) sequence of plant voucher specimen of *Saposhnikovia divaricata* and Chinese Materia Medica (CMM) Radix *Saposhnikovia*

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Partial chloroplast ribulose biphosphate carboxylase large chain (*rbcL*) sequence of plant voucher specimen of *Saposhnikovia divaricata* and Chinese Materia Medica (CMM) Radix Saposhnikoviae

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