

Fact sheet of reference DNA sequences of *Ziziphus jujuba* var. *spinosa* (酸枣)

Summary	Information
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Type of reference material used for data generation	● Plant voucher specimen ● Semen Ziziphi Spinosae (酸枣仁)
Plant voucher specimen (number / locality)	● 2 / Xingtai County, Hebei Province, China ● 2 / Wenshang County, Shandong Province, China ● 2 / Wushe County, Henan Province, China
Chinese Materia Medica (number / locality)	● 5 / Xingtai County, Hebei Province, China ● 5 / Wenshang County, Shandong Province, China ● 4 / Wushe County, Henan 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

Summary	Information
Length of DNA barcode	● Nuclear internal transcribed spacer 2 (ITS2) is 221 bp ● Chloroplast <i>psbA-trnH</i> intergenic spacer (<i>psbA-trnH</i>) is 330–401 bp ● Chloroplast ribulose biphosphate carboxylase large chain (<i>rbcL</i>) is 553 bp

Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210223

>RD689-1A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCCGAAATRCGGGTCCCGGCGAC
GAGTGCCGCAGCAAWCGGTGGTTGTCCAACCCTCGG
CTCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTA
CAGAGACCCAATGCGCTGCCAATGCGGCGTCTCCAA
CG

Remarks: observation at nucleotide position 94, 124

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

Batch ID. BI210223

>RD689-1A *psbA-trnH*

TCCGTCTACAAACGGATAAGACTTTGGTATTAGTGTA
TACTGAGTTATTGAACAGAAAGGAGCAATAATCAATT
TCTTGTTCTAGCAAGAAGTTTGGTATTGCTCCTTTAGG
AGTTTTTTTACTTACATTTTTTTCTTTACTTCATCTTTA
CTTCAACATACCCATACTTTGTTATGTAGAAATTTTT
TTTTTTTCGATATCCTCTTCTCAATTTTTTTTATTTTAC
ATTTAAATTTAAAGGTTTCAATTCCATTTTTTCTTCTTT
TAGTTTGAAGAATGAAAAACAAAAAATGATAAATGGT
GTAAATTGACCTATTTGTTTGAATTTGTAATAGGGGCG
GGATGTA

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210223

>RD689-1A *rbcL*

AAGTGTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTACACTCCTGAATATGAAACCAAAGATA
CTGATATCTTGGCAGCGTTTCGAGTAACCTCCTCAACCT
GGAGTTCGCGCTGAGGAAGCAGGGGCCGCGGTAGCT
GCTGAATCTTCTACTGGTACATGGACAACGTATGGGA
CTGACGGGCTTACCAGTCTTGATCGTTACAAAGGTCG
ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTGCTTATGTAGCTTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
ACGTTTGGAGGATTGCGAATCCCTACTTCTTATACTA
AACTTTCCAAGGACCGCCTCATGGCATCCAGGTTGA
AAGAGATAAATTGAACAAGTATGGTCGCCCCCTATTG
GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
AGAATTACGGTAGAGCAGTTTATGAATGTCTT

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD689
Sample mark	RD689-1A
Locality	Xingtai County, Hebei Province, China
Corresponding CMM specimen	RD613
Authenticated	Yes
Remarks	ITS2: 94R, 124W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210223

>RD690-1A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCCGAAATRCGGGTCCCGGCGAC
GAGTGCCGCAGCAAWCGGTGGTTGTCCAACCCTCGG
CTCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTA
CAGAGACCCAATGCGCTGCCAATGCGGCGTCTCCAA
CG

Remarks: observation at nucleotide position 94, 124

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

Batch ID. BI210223

>RD690-1A_psbA-trnH

CAAACGGATAAGACTTTGGTATTAGTGATACTGAGT
TATTGAACAGAAAGGAGCAATAATCAATTCTTGTTT
TAGCAAGAAGTTTGGTATTGCTCCTTAGGAGTTTTT
TACTTACATTTTTTCTTTACTTCATCTTACTTCAACA
TACCCATACTTCGTTATGTAGAAATTTTTTTTTTCG
ATATCCTCTCTCAATTTTTTTTATTTTACATTTAAAT
TAAAGGTTTCAATTCCATTTTTTCTTCTTTAGTTTGA
AGAATGAAAACAAAAATGATAAATGGTGTAATTTG
ACCTATTTGTTTGAATTTGTAATAGGGGCGGATGTA

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210223

>RD690-1A_rbcL

AAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTACACTCCTGAATATGAAACCAAAGATA
CTGATATCTTGGCAGCGTTTCGAGTAACCTCCTCAACCT
GGAGTTCGCGCTGAGGAAGCAGGGGCCGCGGTAGCT
GCTGAATCTTCTACTGGTACATGGACAACGTATGGA
CTGACGGGCTTACCAGTCTTGATCGTTACAAAGGTCG
ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTGCTTATGTAGCTTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
ACGTTTGGAGGATTGCGAATCCCTACTTCTTATACTA
AAACTTTCCAAGGACCGCCTCATGGCATCCAGGTTGA
AAGAGATAAATTGAACAAGTATGGTCGCCCCCTATTG
GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
AGAATTACGGTAGAGCAGTTTATGAATGTCTT

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD690
Sample mark	RD690-1A
Locality	Xingtai County, Hebei Province, China
Corresponding CMM specimen	RD613
Authenticated	Yes
Remarks	ITS2: 94R, 124W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210223

>RD691-1A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCCGAAATRCGGGTCCCCGGCGAC
GAGTGCCGCAGCAATCGGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

Remarks: observation at nucleotide position 94

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

Batch ID. BI210223

>RD691-1A *psbA-trnH*

CAAACGGATAAGACTTTGGTATTAGTGATACTGAGT
TATTGAACAGAAAGGAGCAATAATCAATTCTTGTTT
TAGCAAGAAGTTTGGTATTGCTCCTTAGGAGTTTTT
TACTTACATTTTTTCTTTACTTCATCTTACTTCAACA
TACCCATACTTCGTTATGTAGAAATTTTTTTTTTCG
ATATCCTCTTCTCAATTTTTTTTATTTTACATTTAAAT
TAAAGGTTTCAATTCCATTTTTTCTTCTTTAGTTTGA
AGAATGAAAACAAAAATGATAAATGGTGTAATTTG
ACCTATTTGTTTGAATTTGTAATAGGGGCGGATGTA

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210223

>RD691-1A *rbcL*

AAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTACACTCCTGAATATGAAACCAAAGATA
CTGATATCTTGGCAGCGTTTCGAGTAACCTCCTCAACCT
GGAGTTCGCGCTGAGGAAGCAGGGGCCGCGGTAGCT
GCTGAATCTTCTACTGGTACATGGACAACGTATGGA
CTGACGGGCTTACCAGTCTTGATCGTTACAAAGGTCG
ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTGCTTATGTAGCTTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
ACGTTTGGAGGATTGCGAATCCCTACTTCTTATACTA
AACTTTTCCAAGGACCGCCTCATGGCATCCAGGTTGA
AAGAGATAAATTGAACAAGTATGGTCGCCCCCTATTG
GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
AGAATTACGGTAGAGCAGTTTATGAATGTCTT

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD691
Sample mark	RD691-1A
Locality	Wenshang County, Shandong Province, China
Corresponding CMM specimen	RD614
Authenticated	Yes
Remarks	ITS2: 94R

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210223

>RD692-1A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCCGAAATRCGGGTCCCGGCGAC
GAGTGCCGCAGCAAWCGGTGGTTGTCCAACCCTCGG
CTCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTA
CAGAGACCCAATGCGCTGCCAATGCGGCGTCTCCAA
CG

Remarks: observation at nucleotide position 94, 124

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

Batch ID. BI210223

>RD692-1A_psbA-trnH

GAAGTTCCGTCTACAAACGGATAAGACTTTGGTATTA
GTGTATACTGAGTTATTGAACAGAAAGGAGCAATAAT
CAATTTCTTGTCTAGCAAGAAGTTTGGTATTGCTCCT
TTAGGAGTTTTTTTACTTACATTTTTTCTTTACTTCAT
CTTTACTTCAACATACCCATACTTTCGTTATGTAGAAA
TTTTTTTTTTTTTCGATATCCTTCTCAATTTTTTTTATT
TTACATTTAAATTTAAAGGTTTCAATTCATTTTTTCT
TCTTTTAGTTGAAGAATGAAAACAAAAAATGATAAA
TGGTGTAATTGACCTATTTGTTTGTAAATTGTAATAG
GGGCGGATGTA

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210223

>RD692-1A_rbcL

AAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTACACTCCTGAATATGAAACCAAAGATA
CTGATATCTTGGCAGCGTTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCTGAGGAAGCAGGGGCCGCGGTAGCT
GCTGAATCTTCTACTGGTACATGGACAACCTGTATGGA
CTGACGGGCTTACCAGTCTTGATCGTTACAAAGGTCG
ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTGCTTATGTAGCTTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
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AACTTTCCAAGGACCGCCTCATGGCATCCAGGTTGA
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GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
AGAATTACGGTAGAGCAGTTTATGAATGTCTT

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD692
Sample mark	RD692-1A
Locality	Wenshang County, Shandong Province, China
Corresponding CMM specimen	RD614
Authenticated	Yes
Remarks	ITS2: 94R, 124W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210223

>RD693-1A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCCGAAATRCGGGTCCCCGGCGAC
GAGTGCCGCAGCAAWCGGTGGTTGTCCAACCCTCGG
CTCCCTGCTGCGTGC GCGGATCGCTGTCGCGGCCCTA
CAGAGACCCAATGCGCTGCCAATGCGGCGTCTCCA
CG

Remarks: observation at nucleotide position 94, 124

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

Batch ID. BI210223

>RD693-1A_psbA-trnH

GAAGTTCGCTACAAACGGATAAGACTTTGGTATTA
GTGTATACTGAGTTATTGAACAGAAAGGAGCAATAAT
CAATTTCTTGTCTAGCAAGAAGTTTGGTATTGCTCCT
TTAGGAGTTTTTTTACTTACATTTTTTCTTTACTTCAT
CTTTACTTCAACATAACCCATACTTTCGTTATGTAGAAA
TTTTTTTTTTTTTCGATATCCTCTTCTCAATTTTTTTTATT
TTACATTTAAATTTAAAGGTTTCAATTCCATTTTTTCT
TCTTTTAGTTGAAGAATGAAAACAAAAAATGATAAA
TGGTGTAATTGACCTATTTGTTTGTAAATTGTAATAG
GGCGGATGTA

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210223

>RD693-1A_rbcL

AAGTGTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTACACTCCTGAATATGAAACCAAAGATA
CTGATATCTTGGCAGCGTTTCGAGTAACTCCTCAACCT
GGAGTTCGCGCTGAGGAAGCAGGGGCGCGGTAGCT
GCTGAATCTTCTACTGGTACATGGACAACGTATGGA
CTGACGGGCTTACCAGTCTTGATCGTTACAAAGGTCG
ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTGCTTATGTAGCTTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
ACGTTTGGAGGATTGCGAATCCCTACTTCTTATACTA
AACTTTCCAAGGACCGCCTCATGGCATCCAGGTTGA
AAGAGATAAATTGAACAAGTATGGTCGCCCCCTATTG
GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
AGAATTACGGTAGAGCAGTTTATGAATGTCTT

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD693
Sample mark	RD693-1A
Locality	Wushe County, Henan Province, China
Corresponding CMM specimen	RD615
Authenticated	Yes
Remarks	ITS2: 94R, 124W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210223

>RD694-1B ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCCGAAATRCGGGTCCCGGCGAC
GAGTGCCGCAGCAAWCGGTGGTTGTCCAACCCTCGG
CTCCCTGCTGCGTGC GCGGATCGCTGTCGCGGCCCTA
CAGAGACCCAATGCGCTGCCAATGCGGCGTCTCCAA
CG

Remarks: observation at nucleotide position 94, 124

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

Batch ID. BI210223

>RD694-1B *psbA-trnH*

CAAACGGATAAGACTTTGGTATTAGTGATACTGAGT
TATTGAACAGAAAGGAGCAATAATCAATTCTTGTTT
TAGCAAGAAGTTTGGTATTGCTCCTTTAGGAGTTTTT
TACTTACATTTTTTCTTTACTTCATCTTTACTTCAACA
TACCCATACTTCGTTATGTAGAAATTTTTTTTTTTTCG
ATATCCTCTTCTCAATTTTTTTTATTTTACATTTAAAT
TAAAGGTTTCAATTCCATTTTTTCTTCTTTAGTTTGA
AGAATGAAAACAAAAATGATAAATGGTGTAATTTG
ACCTATTTGTTTGAATTTGTAATAGGGGCGGATGTA
GCCAAG

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210223

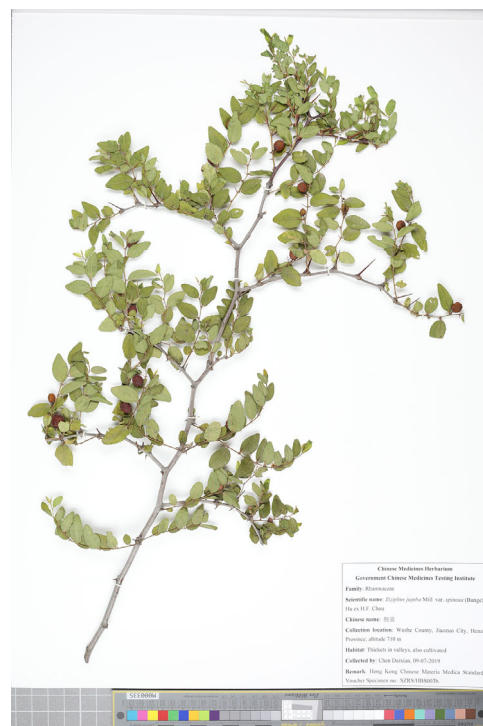
>RD694-1B *rbcL*

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GGAGTTCGCGCTGAGGAAGCAGGGGCCGCGTAGCT
GCTGAATCTTCTACTGGTACATGGACAACCTGTATGGA
CTGACGGGCTTACCAGTCTTGATCGTTACAAAGGTCG
ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTGCTTATGTAGCTTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
ACGTTTGGAGGATTGCGAATCCCTACTTCTTACTACTA
AACTTTCCAAGGACCGCCTCATGGCATCCAGGTTGA
AAGAGATAAATTGAACAAGTATGGTCGCCCCCTATTG
GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
AGAATTACGGTAGAGCAGTTTATGAATGTCTT

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD694
Sample mark	RD694-1B
Locality	Wushe County, Henan Province, China
Corresponding CMM specimen	RD615
Authenticated	Yes
Remarks	ITS2: 94R, 124W

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI210209-2

>RD613-1B ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCYGAAATACGGGTCCCGGCGAC
GAGTGCCGCGAGCAATCGGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

Remarks: observation at nucleotide position 88

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

Batch ID. BI210209-2

>RD613-1B_psbA-trnH

GAAGTTCGCTCTACAAACGGATAAGACTTTGGTATTA
GTGTATACTGAGTTATTGAACAGAAAGGAGCAATAAT
CAATTTCTTGTCTAGCAAGAAGTTTGGTATTGCTCCT
TTAGGAGTTTTTTTACTTACATTTTTTCTTTACTTCAT
CTTTACTTCAACATACCCATACTTTCGTTATGTAGAAA
TTTTTTTTTTTTTCGATATCCTCTTCTCAATTTTTTTTATT
TTACATTTAAATTTAAAGGTTTCAATTCATTTTTTCT
TCTTTTAGTTGAAGAATGAAAAACAAAAAATGATAAA
TGGTGTAAATTGACCTATTTGTTTGTAAATTTGTAATAG
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Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210209-2

>RD613-1B_rbcL

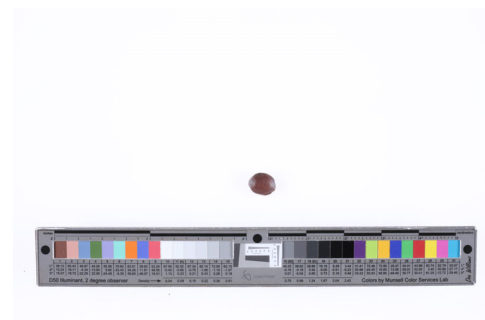
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Reference Detail

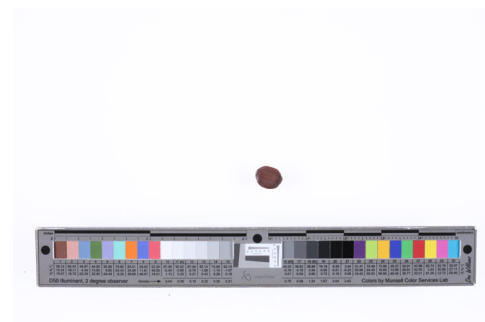
Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD613
Sample mark	RD613-1B
Locality	Xingtai County, Hebei Province, China
Corresponding plant voucher specimen	RD689, RD690
Authenticated	Yes
Remarks	ITS2: 88Y

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. BIC230808

>RD613-6A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCTGAAATACGGGTCCCGGCGAC
GAGTGCCGCGAGCAATCGGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

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

Batch ID. BIC230808

>RD613-6A_psbA-trnH

ATAACTTCCCTYTAGATCTAGCTGCGGTCGAAGTTC
GTCTACAAACGGATAAGACTTTGGTATTAGTGATAC
TGAGTTATTGAACAGAAAGGAGCAATAATCAATTTCT
TGTTCTAGCAAGAAGTTTGGTATTGCTCCTTAGGAGT
TTTTTACTTACATTTTTTCTTTACTTCATCTTTACTT
CAACATACCCATACTTTCGTTATGTAGAAATTTTTTT
TTTTCGATATCCTCTTCTCAATTTTTTTTATTACATT
TAAATTTAAAGGTTTCAATTCATTTTTTCTTCTTTTA
GTTTGAAGAATGAAAAACAAAAATGATAAATGGTGT
AAATTGACCTATTGTTTGTAAATTTGTAATAGGGGCG
GATGTASCCAATKGATCAAGGCAG

Remarks: observation at nucleotide position 12, 383, 388

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230808

>RD613-6A_rbcL

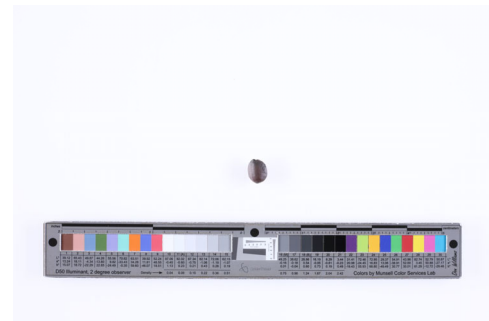
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GCTGAATCTTCTACTGGTACATGGACAACGTATGGA
CTGACGGGCTTACCAGTCTTGATCGTTACAAAGGTCG
ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTGCTTATGTAGCTTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACAATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
ACGTTTGGAGGATTGCGAATCCCTACTTCTTATACTA
AAACTTTCCAAGGACCGCCTCATGGCATCCAGGTTGA
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Reference Detail

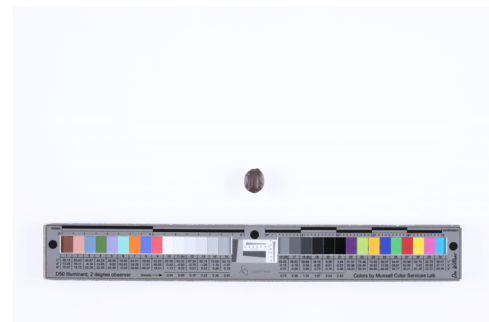
Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD613
Sample mark	RD613-6A
Locality	Xingtai County, Hebei Province, China
Corresponding plant voucher specimen	RD689, RD690
Authenticated	Yes
Remarks	psbA-trnH: 12Y, 383S, 388K

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. BIC230808

>RD613-8A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCYGAAATACGGGTCCCGGCGAC
GAGTGCCGCAGCAATCGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

Remarks: observation at nucleotide position 88

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

Batch ID. BIC230808

>RD613-8A_psbA-trnH

ATAACTTCCCTYTAGATCTAGCTGCGGTGCAAGTTCC
GTCTACAAACGGATAAGACTTTGGTATTAGTGATAC
TGAGTTATTGAACAGAAAGGAGCAATAATCAATTTCT
TGTTCTAGCAAGAAGTTTGGTATTGCTCCTTAGGAGT
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CAACATACCCATACTTTCGTTATGTAGAAATTTTTTT
TTTTCGATATCCTCTTCTCAATTTTTTTTATTTTACATT
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Remarks: observation at nucleotide position 12, 383

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230808

>RD613-8A_rbcL

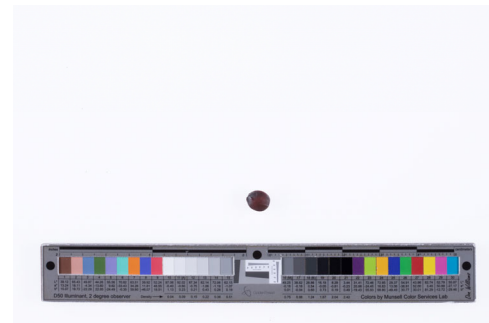
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GCTGAATCTTCTACTGGTACATGGACAACGTATGGA
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ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAAT
CAATATATTGCTTATGTAGCTTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
ACGTTTGGAGGATTGCGAATCCCTACTTCTTATACTA
AACTTTCCAAGGACCGCCTCATGGCATCCAGGTTGA
AAGAGATAAATTGAACAAGTATGGTCGCCCCCTATTG
GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
AGAATTACGGTAGAGCAGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD613
Sample mark	RD613-8A
Locality	Xingtai County, Hebei Province, China
Corresponding plant voucher specimen	RD689, RD690
Authenticated	Yes
Remarks	ITS2: 88Y; psbA-trnH: 12Y, 383S

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. BIC230808

>RD613-9A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCTGAAATACGGGTCCCCGGCGAC
GAGTGCCGCAGCAATCGGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

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

Batch ID. BIC230808

>RD613-9A_psbA-trnH

ATAACTTCCCTYTAGATCTAGCTGCGGTTCGAGTCCG
TCTACAAACGGATAAGACTTTGGTATTAGTGATACT
GAGTTATTGAACAGAAAGGAGCAATAATCAATTTCTT
GTTCTAGCAAGAAGTTTGGTATTGCTCCTTAGGAGTT
TTTTTACTTACATTTTCTTCTTACTTCACTTTACTTC
AACATACCCATACTTTCGTTATGTAGAAATTTTTTTT
TTTTACATTAAATTTAAAGGTTTCAATTCCATTTT
CTTCTTTTAGTTTGAAGAATGAAAACAAAAAATGATA
AATGGTGTAATTGACCTATTTGTTTGTAAATTTGTAAG
TTTGTAATTGTAAATAGGGGCGGATGTAGCCAAGKGG
ATCAAGGCAG

Remarks: observation at nucleotide position 12, 374

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230808

>RD613-9A_rbcL

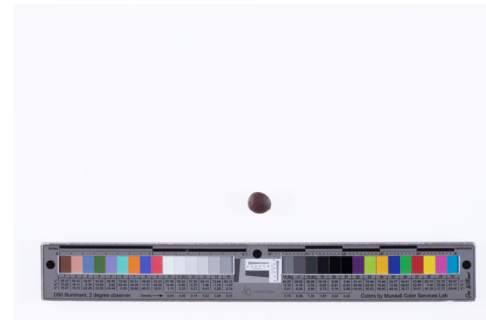
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GCTGAATCTTCTACTGGTACATGGACAACGTATGGA
CTGACGGGCTTACCAGTCTTGATCGTTACAAAGGTCG
ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTGCTTATGTAGCTTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
ACGTTTGGAGGATTGCGAATCCCTACTTCTTATACTA
AACTTTCCAAGACCGCCTCATGGCATCCAGGTTGA
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Reference Detail

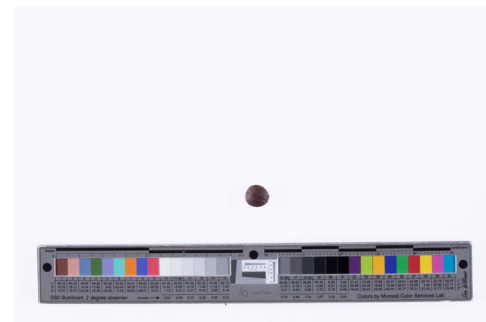
Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD613
Sample mark	RD613-9A
Locality	Xingtai County, Hebei Province, China
Corresponding plant voucher specimen	RD689, RD690
Authenticated	Yes
Remarks	psbA-trnH: 12Y, 374K

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. BIC230808

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>RD613-11A ITS2
CACAACTGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCCGAAATGCGGGTCCCCGGCGAC
GAGTGCCGCAGCAATCGGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
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Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BIC230808

```
>RD613-11A_psbA-trnH
ATAACTTCCCTYTAGATCTAGCTGCGGTGCAAGTTC
GTCTACAAACGGATAAGACTTTGGTATTAGTGATAC
TGAGTTATTGAACAGAAAGGAGCAATAATCAATTTCT
TGTTCTAGCAAGAAGTTTGGTATTGCTCCTTAGGAGT
TTTTTACTTACATTTTTTTCTTACTTCATCTTTACTT
CAACATACCCATACTTTCGTTATGTAGAAATTTTTTT
TTTTCGATACTCTCTCTCAATTTTTTTTATTTACATT
TAAATTTAAAGGTTTCAATTCCATTTTTTCTTCTTTA
GTTTGAAGAATGAAAACAAAAAATGATAAATGGTGT
AAATTGACCTATTGTTTGTAAATTTGTAATAGGGGCG
GATGTASCCAAGKGGATCAAGGCAG
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Remarks: observation at nucleotide position 12, 383, 389

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230808

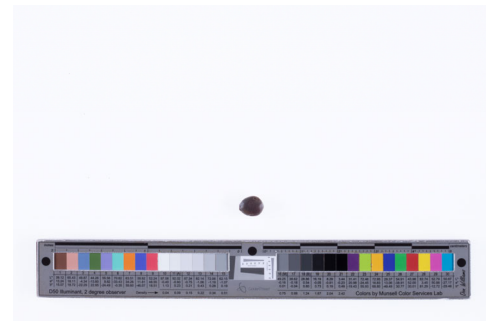
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>RD613-11A_rbcL
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GCTGAATCTTCTACTGGTACATGGACAACGTATGGA
CTGACGGGCTTACCAGTCTTGATCGTTACAAAGGTCG
ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTGCTTATGTAGCTTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
ACGTTTGGAGGATTGCGAATCCCTACTTCTTATACTA
AACTTTCCAAGGACCGCCTCATGGCATCCAGGTTGA
AAGAGATAAATTGAACAAGTATGGTCGCCCCCTATTG
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Reference Detail

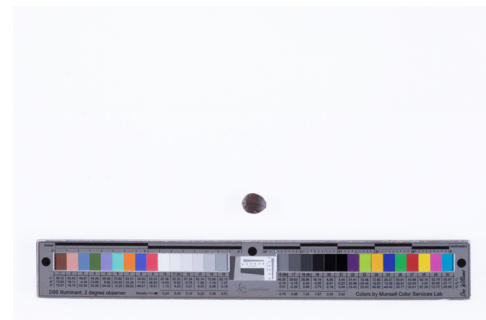
Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD613
Sample mark	RD613-11A
Locality	Xingtai County, Hebei Province, China
Corresponding plant voucher specimen	RD689, RD690
Authenticated	Yes
Remarks	psbA-trnH: 12Y, 383S, 389K

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. BI210209-2

>RD614-1B ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCYGAAATRCGGGTCCCCGGCGAC
GAGTGCCGCAGCAATCGGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

Remarks: observation at nucleotide position 88, 94

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

Batch ID. BI210209-2

>RD614-1B_psbA-trnH

TCTACAAACGGATAAGACTTTGGTATTAGTGATACT
GAGTTATTGAACAGAAAGGAGCAATAATCAATTTCTT
GTTCTAGCAAGAAGTTTGGTATTGCTCCTTTAGGAGTT
TTTTTACTTACATTTTTTCTTTACTTCATCTTTACTTC
AACATACCCATACTTTCGTTATGTAGAAAATTTTTTTT
TTTCGATATCCTCTTCTCAATTTTTTTTATTTTACATT
AAATTTAAAGGTTTCAATTCATTTTTTCTTCTTTAG
TTTGAAGAATGAAAACAAAAATGATAAATGGTGTA
AATTGACCTATTGTTTGTAAATTTGTAA

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210209-2

>RD614-1B_rbcL

AAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTACACTCCTGAATATGAAACCAAAGATA
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GCTGAATCTTCTACTGGTACATGGACAACGTATGGA
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Reference Detail

Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD614
Sample mark	RD614-1B
Locality	Wenshang County, Shandong Province, China
Corresponding plant voucher specimen	RD691, RD692
Authenticated	Yes
Remarks	ITS2: 88Y, 94R

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. BIC230808

>RD614-6A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCCGAAATGCGGGTCCCCGGCGAC
GAGTGCCGCAGCAATCGGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTGCGGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

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

Batch ID. BIC230808

>RD614-6A_psbA-trnH

ATAACTTCCCTYTAGATCTAGCTGCGGTGCAAGTTCC
GTCTACAAACGGATAAGACTTTGGTATTAGTGATAC
TGAGTTATTGAACAGAAAGGAGCAATAATCAATTTCT
TGTTCTAGCAAGAAGTTTGGTATTGCTCCTTAGGAGT
TTTTTACTTACATTTTTTTCTTACTTCATCTTTACTT
CAACATACCCATACTTTCTGTATGTAGAAATTTTTTT
TTTTTACATTTAAATTTAAAGGTTTCAATTCCATTTTT
CTTCTTTAGTTTGAAGAATGAAAACAAAAAATGATA
AATGGTGTAATTGACCTATTTGTTTGTAAATTTGTAAG
TTTGTAATTGTAAATAGGGGCGGATGTASCCAAGKGG
ATCAAGGCAG

Remarks: observation at nucleotide position 12, 369, 375

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230808

>RD614-6A_rbcL

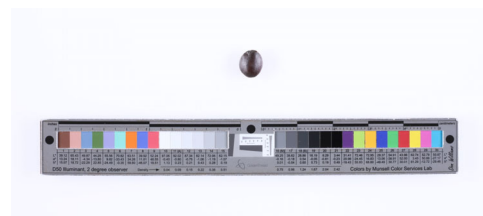
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AGAATTACGGTAGAGCAGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD614
Sample mark	RD614-6A
Locality	Wenshang County, Shandong Province, China
Corresponding plant voucher specimen	RD691, RD692
Authenticated	Yes
Remarks	psbA-trnH: 12Y, 369S, 375K

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. BIC230808

>RD614-7A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCYGAAATRCGGGTCCCCGGCGAC
GAGTGCCGCGAGCAATCGGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

Remarks: observation at nucleotide position 88, 94

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

Batch ID. BIC230808

>RD614-7A_psbA-trnH

ATAACTTCCCTYTAGATCTAGCTGCGGTYGAAGTTCC
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TGAGTTATTGAACAGAAAGGAGCAATAATCAATTTCT
TGTTCTAGCAAGAAGTTTGGTATTGCTCCTTAGGAGT
TTTTTTACTTACATTTTTTCTTACTTCATCTTTACTT
CAACATACCCATACTTTCGTTATGTAGAAATTTTTTT
TTTTTACATTTAAATTTAAAGGTTTCAATTCCATTTTT
CTTCTTTAGTTTGAAGAAAGAAAACAAAAAATGATA
AATGGTGAAATTGACCTATTTGTTGTAATTTGTAAG
TTTGTAATTTGTAATAGGGGCGGAG

Remarks: observation at nucleotide position 12, 29

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230808

>RD614-7A_rbcL

AAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
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GGAGTTCCGCTGAGGAAGCAGGGGCCGCGGTAGCT
GCTGAATCTTCTACTGGTACATGGACAACCTGTATGGA
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ACGTTTGGAGGATTGCGAATCCCTACTTCTTATACTA
AAACTTTCCAAGGACCGCCTCATGGCATCCAGGTTGA
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GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
AGAATTACGGTAGAGCAGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD614
Sample mark	RD614-7A
Locality	Wenshang County, Shandong Province, China
Corresponding plant voucher specimen	RD691, RD692
Authenticated	Yes
Remarks	ITS2: 88Y, 94R; psbA-trnH: 12Y, 29Y

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. BIC230823

>RD614-12A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
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GGTCCGCGGCTGGCYGAAATRCGGGTCCCGGCGAC
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TCCCTGCTGCGTGC GCGGATCGCTGTGCGGCCCCAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

Remarks: observation at nucleotide position 88, 94

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

Batch ID. BIC230823

>RD614-12A_psbA-trnH

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TAAATTTAAAGGTTCAATTCCATTTTTTCTTCTTTA
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AAATTGACCTATTGTTTGTAAATTTGTAATAGGGGCG
GATGTASCCAAGTGATCAAGGCAG

Remarks: observation at nucleotide position 12, 383

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230823

>RD614-12A_rbcL

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GCTGAATCTTACGGGTACATGGACAACCTGTATGGA
CTGACGGGCTTACCAGTCTTGATCGTTACAAAGGTGCG
ATGCTACGGCCTTGAGCCCGTTGCTGGAGAAGAAAAAT
CAATATATTGCTTATGTAGCTTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAGGCCCTGCGCGCTCT
ACGTTTGGAGGATTGCGAATCCCTACTTCTTATACTA
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GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
AGAATTACGGTAGAGCAGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD614
Sample mark	RD614-12A
Locality	Wenshang County, Shandong Province, China
Corresponding plant voucher specimen	RD691, RD692
Authenticated	Yes
Remarks	ITS2: 88Y, 94R; psbA-trnH: 12Y, 383S

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. BIC230823

>RD614-14A ITS2

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GGTCCGCGGCTGGCYGAAATRCGGGTCCCGGCGAC
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TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

Remarks: observation at nucleotide position 88, 94

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

Batch ID. BIC230823

>RD614-14A_psbA-trnH

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TGTTCTAGCAAGAAGTTTGGTATTGCTCCTTAGGAGT
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GTTTGAAGAATGAAAAACAAAAATGATAAATGGTGT
AAATTGACCTATTGTTTGTAAATTTGTAATAGGGGCG
GATGTAGCCAAGTGATCAAGGCAG

Remarks: observation at nucleotide position 12

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230823

>RD614-14A_rbcL

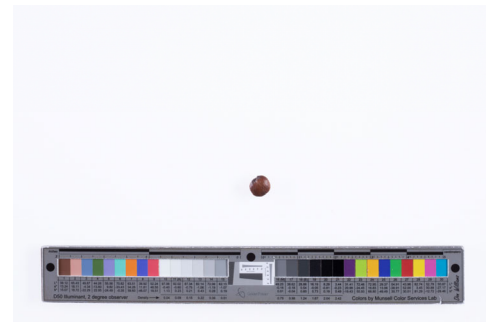
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AAGAGATAAATTGAACAAGTATGGTCGCCCCCTATTG
GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
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Reference Detail

Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD614
Sample mark	RD614-14A
Locality	Wenshang County, Shandong Province, China
Corresponding plant voucher specimen	RD691, RD692
Authenticated	Yes
Remarks	ITS2: 88Y, 94R; psbA-trnH: 12Y

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. BI210209-2

>RD615-1B ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
CGAAGAGGGGGCGGATGCTGGCCTCCCGTGTGCCAC
GGTCCGCGGCTGGCYGAAATRCGGGTCCCGGCGAC
GAGTGCCGCAGCAATCGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

Remarks: observation at nucleotide position 88, 94

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

Batch ID. BI210209-2

>RD615-1B_psbA-trnH

GAAGTTCCGTCTACAAACGGATAAGACTTTGGTATTA
GTGTATACTGAGTTATTGAACAGAAAGGAGCAATAAT
CAATTTCTTGTCTAGCAAGAAGTTTGGTATTGCTCCT
TTAGGAGTTTTTTTACTTACATTTTTTCTTTACTTCAT
CTTTACTTCAACATACCCATACTTTCGTTATGTAGAAA
TTTTTTTTTTTTTCGATATCCTCTTCTCAATTTTTTTTATT
TTACATTTAAATTTAAAGGTTTCAATTCATTTTTTCT
TCTTTTAGTTGAAGAATGAAAAACAAAAAATGATAAA
TGGTGTAAATTGACCTATTTGTTTGTAAATTTGTAATAG
GGGCGGATGTAGCCAA

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210209-2

>RD615-1B_rbcL

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CTGATATCTTGGCAGCGTTTCGAGTAACTCCTCAACCT
GGAGTTCGCCTGAGGAAGCAGGGGCCGCGTAGCT
GCTGAATCTTCTACTGGTACATGGACAACGTATGGA
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Reference Detail

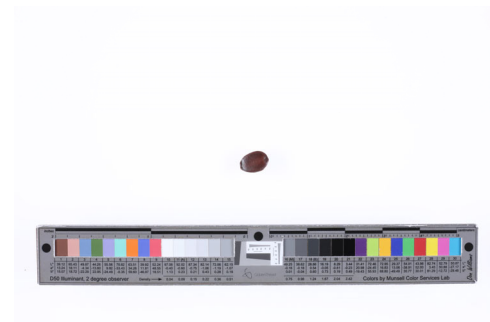
Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD615
Sample mark	RD615-1B
Locality	Wushe County, Henan Province, China
Corresponding plant voucher specimen	RD693, RD694
Authenticated	Yes
Remarks	ITS2: 88Y, 94R

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. BI210209-2

>RD615-2A ITS2

CACAACGTTGCCCCCATCCCAACCTCGACCTCGAGG
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GGTCCGCGGCTGGCCGAAATGCGGGTCCCCGGCGAC
GAGTGCCGCAGCAATCGGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

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

Batch ID. BI210209-2

>RD615-2A_psbA-trnH

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TACTTACATTTTTTTCTTACTTCATCTTACTTCAACA
TACCCATACCTTCGTTATGTAGAAATTTTTTTTTTTA
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TGTAATTTGACCTATTTGTTTGTAAATTTGTAAGTTTGT
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Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI210209-2

>RD615-2A_rbcL

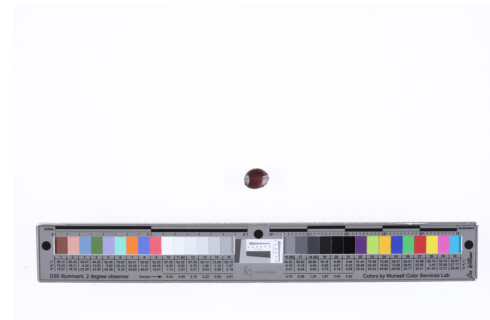
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Reference Detail

Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD615
Sample mark	RD615-2A
Locality	Wushe County, Henan Province, China
Corresponding plant voucher specimen	RD693, RD694
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. BIC230808-2

>RD615-7B ITS2

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

Batch ID. BIC230808-2

>RD615-7B_psbA-trnH

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TGTTCTAGCAAGAAGTTTGGTATTGCTCCTTAGGAGT
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TAAATTTAAAGGTTTCAATTCCATTTTTTCTTCTTTA
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Remarks: observation at nucleotide position 12, 383

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230808-2

>RD615-7B_rbcL

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GGATGTACTATTAAACCTAAATTGGGGTTATCTGCTA
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Reference Detail

Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD615
Sample mark	RD615-7B
Locality	Wushe County, Henan Province, China
Corresponding plant voucher specimen	RD693, RD694
Authenticated	Yes
Remarks	psbA-trnH: 12Y, 383S

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. BIC230808-2

>RD615-8B ITS2

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GGTCCGCGGCTGGCCGAAATACGGGTCCCGGCGAC
GAGTGCCGCAGCAATCGGTGGTTGTCCAACCCTCGGC
TCCCTGCTGCGTGCGCGGATCGCTGTCGCGGCCCTAC
AGAGACCCCAATGCGCTGCCAATGCGGCGTCTCCAAC
G

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

Batch ID. BIC230808-2

>RD615-8B_psbA-trnH

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AAATTGACCTATTGTTTGTAAATTTGTAATAGGGGCG
GATGTASCCAAGTGATCAAGGCAG

Remarks: observation at nucleotide position 12, 383

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230808-2

>RD615-8B_rbcL

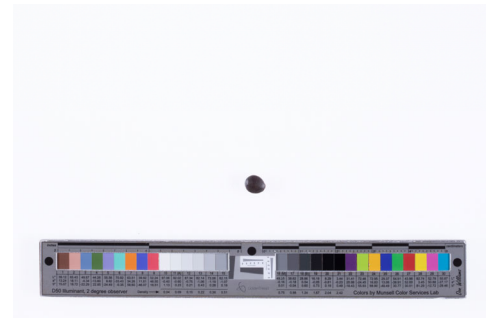
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Reference Detail

Description of reference material	Specimen of Ziziphi Spinosae Semen
Scientific name	<i>Ziziphus jujuba</i> Mill. var. <i>spinosa</i> (Bunge) Hu ex H.F. Chou
Laboratory number	RD615
Sample mark	RD615-8B
Locality	Wushe County, Henan Province, China
Corresponding plant voucher specimen	RD693, RD694
Authenticated	Yes
Remarks	psbA-trnH: 12Y, 383S

Image

Front view



Back view



Reference DNA sequences in FASTA format

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2) sequence of plant voucher specimen of *Ziziphus jujuba* var. *spinosa* and Chinese Materia Medica (CMM) Semen Ziziphi Spinosae

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>RD690-1A ITS2
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>RD615-8B_ITS2

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Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*) sequence of plant voucher specimen of *Ziziphus jujuba* var. *spinosa* and Chinese Materia Medica (CMM) Semen *Ziziphi Spinosa*

>RD689-1A_psbA-trnH

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