

DNA Identification Sequences

Specimen: Cordyceps

Description: Nucleotide collection (nt)

Program: BLAST 2.8.1+

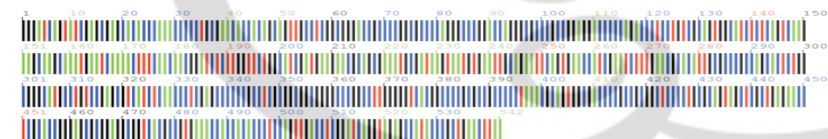
Molecule Type: Nucleic acid



DNA barcode test is a molecular biology technique that uses a recognized and relatively short DNA fragment in the genome to identify species. It is fast, accurate, and free from the morphological characteristics of the sample. It is suitable for medicinal materials and bases. The identification of the original species is an effective supplement to the traditional Chinese medicine identification method. This study is based on the ITS sequence to identify the source of wild Cordyceps.

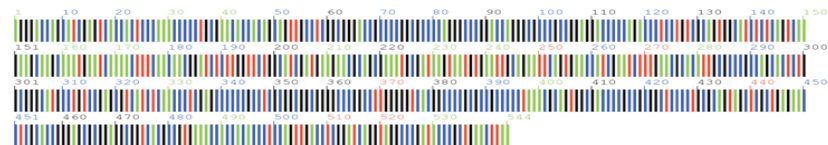
XYSY1

GGGATCAKTRTCSWGYASAYACWCYMAACCCCTGCGAACACCACAGCAGTTGCCTCGGCGGGACCG-
CCCCGGCGCCCCAGGGCCCGGACCGAGGGCGCCGCGGAGGAGCCCCAGACCCTCCTGTCGAGTGG-
CATCTCTCAGTCAAGAAGCAAGCAAATGAATCAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGAT-
GAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAACCATCGAATCTTTGAACGCA-
CATTGCGCCCGCCAGCACTCTGGCGGGCATGCCTGTCCGAGCGTCATCTCAACCCTCGRGGCCCCGCTC-
GCGGGCGGGGGCCCGCTTGGGGGTACGGCCCCGCGCCGCCCTAAACGCAGTGGCGACCCCG-
CCGCGGCTCCCTGCGCAGTAGCTCGCTGAGAACTCGCACCGGGAGCGCGGAGGCGGTACGCGGT-
GAAACCACCAACCCCTCAGTTGACCTCGGATCAGGTAGRKCCTACCCGCTGAACCTAA



XYSY2

AGGGAYYRYATCGAGTCACCACTCCCAAAACCCCTGCGAACACCACAGCAGTTGCCTCGGCGGGACCG-
CCCCGGCGCCCCAGGGCCCGGACCGAGGGCGCCGCGGAGGAGCCCCAGACCCTCCTGTCGAGTGG-
CATCTCTCAGTCAAGAAGCAAGCAAATGAATCAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGAT-
GAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAACCATCGAATCTTTGAACGCA-
CATTGCGCCCGCCAGCACTCTGGCGGGCATGCCTGTCCGAGCGTCATCTCAACCCTCGAGCCCCCGCTC-
GCGGGCGGGGGCCCGCTTGGGGGTACGGCCCCGCGCCGCCCTAAACGCAGTGGCGACCCCG-
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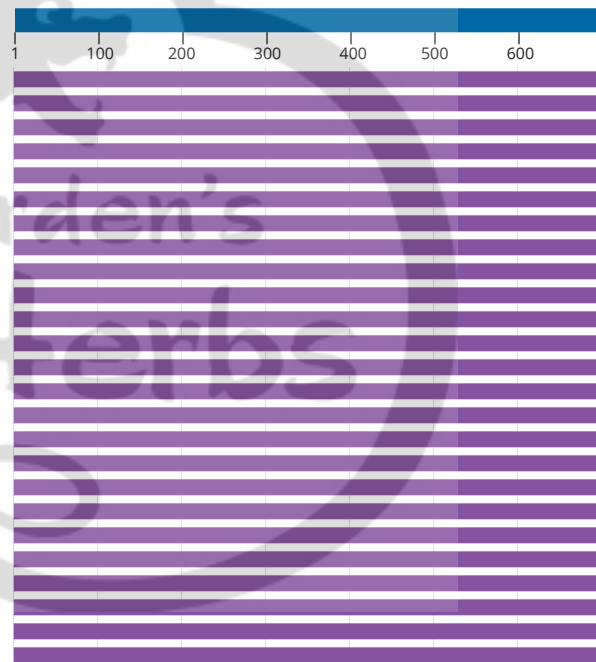
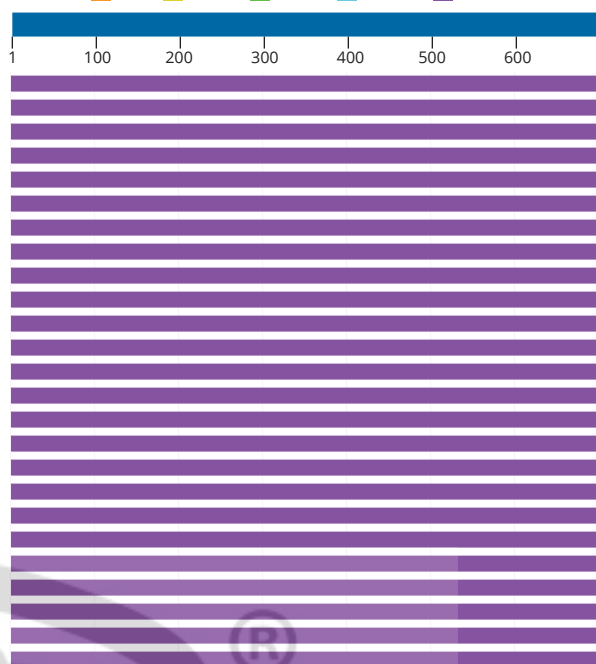


Conclusion: Through the processing and analysis of the sample and data, we identified the closest species of the sample to the Latin name ***Ophiocordyceps sinensis***, which identified the highest similarity species as Cordyceps with a maximum similarity of 98.16%.



Alignment Scores

<40 40-50 50-80 80-200 ≥200



98.1%

98.16% similarity to species:

Ophiocordyceps sinensis