

Isolate 33

Type: Bacteria isolate genomic DNA

Query length: 756

Identity of isolate obtained: *Providenciarettgeri*

Nucleotide sequence obtained (FASTA format):

>AJ1A_907-R_H03_24

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AGCGGTCTTCACGCGTTAGCTGCGCTACCGCCTAAGGGCACAACCTCTAATCGATTTCGTT
AAGGCGTGGACTACCAGGGTATCTAATCCGGTTTGTCCCCACGCTTTCACCTGACGGT
TTGCCAGGGGGTCGCCTCCCCACGGGATTCCCCACTATTCTACCTTTTCACCGTACC
ATGGAATTCTACCCCCCTCTACAACTCTACTGACCAGTTTAAAGGCATTCCCAGGTAAC
CGGGAATTTCACTTTTAATTTAATAACCGCCGGGGGGTTTAACCCAAATCCAATAAGT
TGGCCCCCTCCGAATAACCGGTTGTGGACGAATTACCGGGGTTACTTCTGGGAAAGGATT
GATGAAATAACATCAGCTTCCCTCCCGACTGAAAATTACAACCCTAGGCCTTCTCATAAC
CGGAATGTTGATGGTTGCCCCCATGGGAAATTCCCCACTGTTGCCTCCCGAAGAAGGGCC
GGGTCACCCAGGGGGTTGATCATCTTCTCAAACCATTAGGAATCGCCTAGGAACCATTAC
CCCACCTACTATTAATCAATATGGCATCCGATAGCAGGACCGAATCCCCTGTTTTGCTCT
AAGAATAATGGGAATAATAACGTTCAAGTAATCCCCCTCTATGGGAAGATCCAATACA
TAACTCACCCGTCCGCCGTTTCGTAGAAAAAAGCTTCTTGTTACCACTCGACTGGATGTGT
AAGCCTGCCAGTCCATCTGAGCTGACTACTCTGGGG
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Supplemental Material a: Specific nucleotide sequence used for the identification of isolate 33 as *Providencia rettgeri*

Isolate 85

Type: Bacteria isolate genomic DNA

Query length: 825

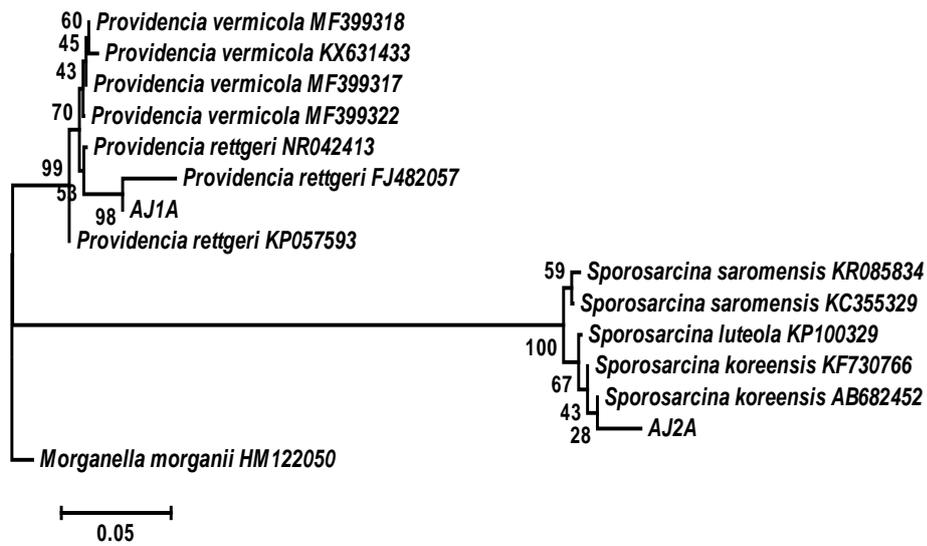
Identity of isolate obtained: *Sporosarcinakoreensis*

Nucleotide sequence obtained (FASTA format):

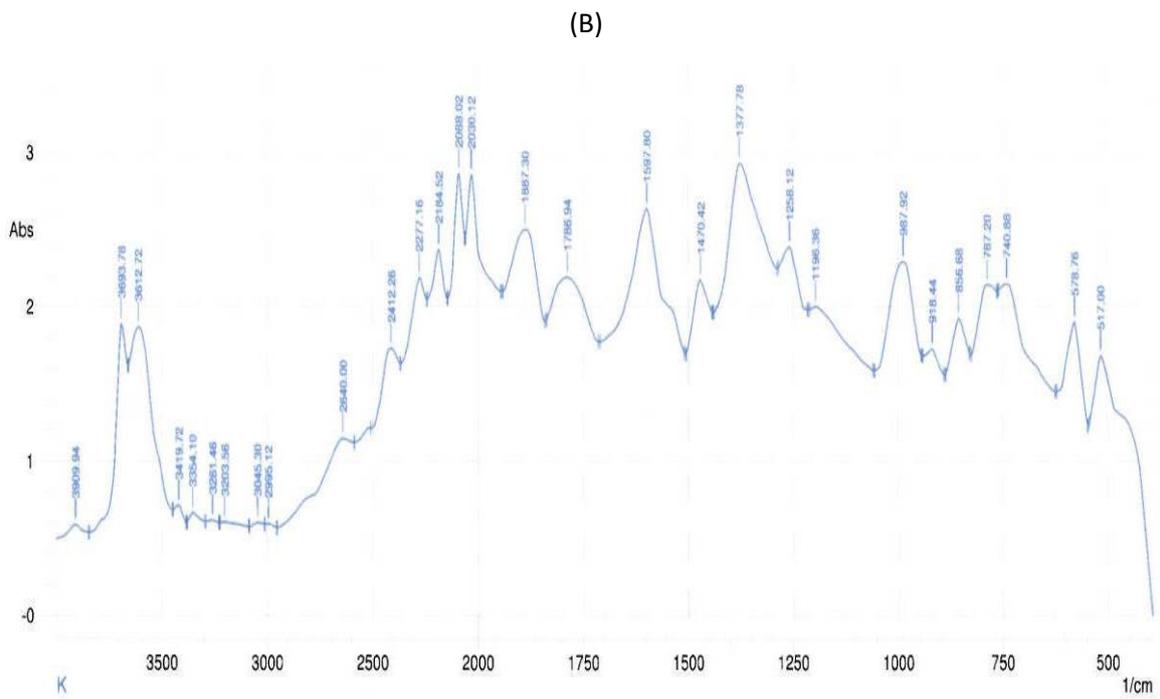
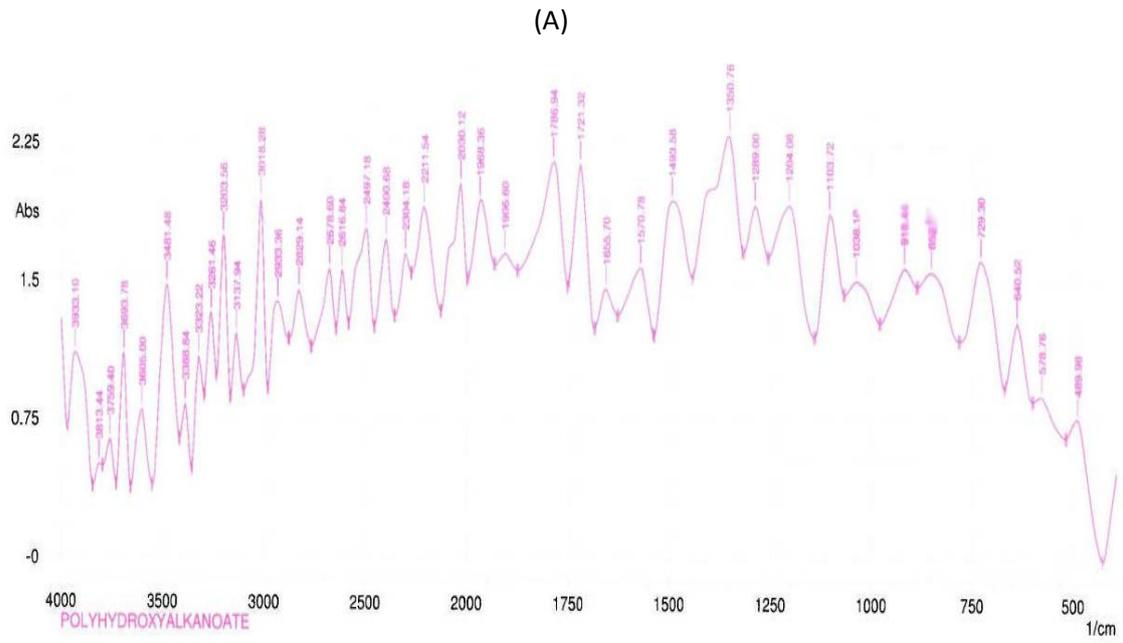
>AJ2A_907-R_D10_10

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CGCTACACGGGAATTCCGCTTTCCTCTTCTGACTCAAGTCTCCAGTTTCCAATGACCCTC
CACGGTTGAGCCGGGGCTTTCACATCAGACTTAAAGGACCGCCTGCGCGCGCTTTACGCC
CAATAATCCGGACAACGCTTGCCACCTACGTATTACCGCGGCTGCTGGCAGGAGTTAGCC
GGGCTTCTGACAGGTACCGTCAAGACGGGAGTACTCCCGTACTTGTTCTTCCCTCCAACA
GAGCTTACGATCCGAAAACCTTCTTCGCTCACGCGGCGTGCTCCATCAGACTTCGCCATT
GTGAAATTCCTACTGCTGCCTCCCGTAGGAGTCTGGCCGTGTCTCAGTCCAGTGTGGCGA
TCACCTCTCAGCGCTACGATCGTCGCCTTGGTGGCCTTACCCCCAACTAGCTAATGCGCG
GGCCATCTGCAGTGACAGCAAACCGTCTTTCAGTTCCCTCCATGGGAGGAACTGATTATTCG
GATTACCCCGGTTTCCCGGAGTTATCCCCATCTGCAGGCAGGTTGCCACGGTTACTCACC
CGTCCGCCGCTAATATCAGGGAGCAAGCTCCCTTCAATCCGCTCGACTTGCAATGATTAGG
CACGCCGCCAGCGTTCGCTGAGCGAAAAATAAA
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Supplemental Material b: Specific nucleotide sequence used for the identification of isolate 85 as *Sporosarcina koreensis*



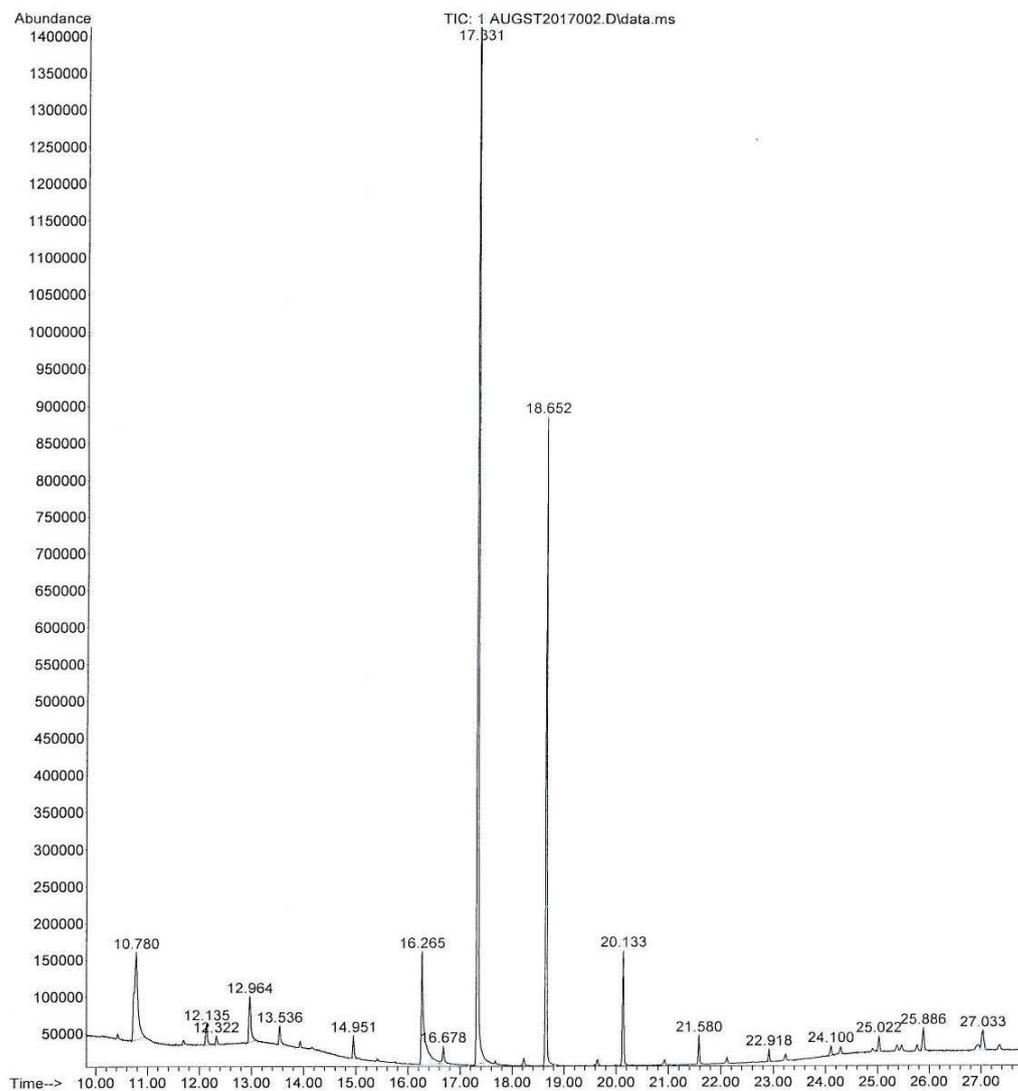
Supplemental Material c: Phylogenetic tree for *Providencia rettgeri* and *Sporosarcina koreensis*



Supplemental Material d: FT-IR spectrum of the PHA produced by *P. rettgeri*(A) and *S. koreensis* (B)

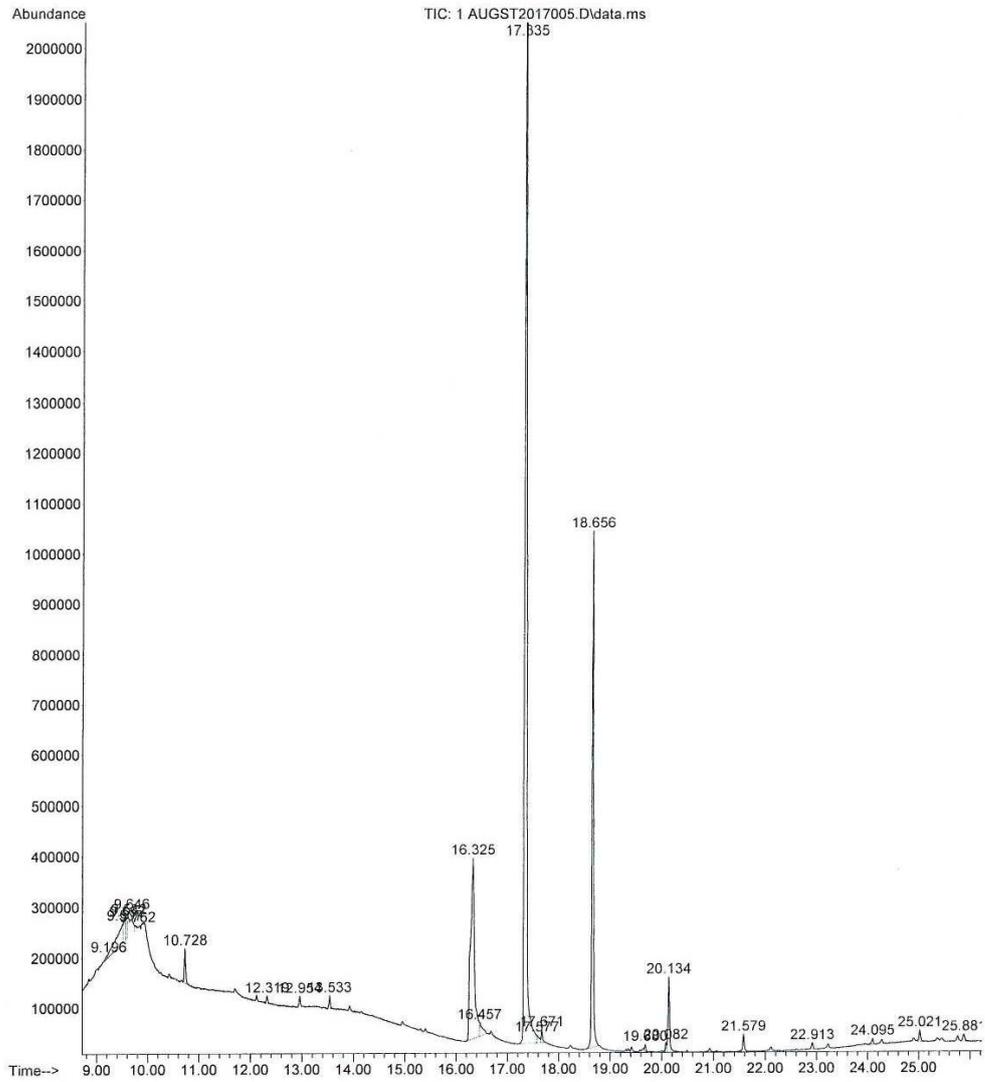
(A)

File : C:\Users\admin\Desktop\UNIV\1 AUGST2017002.D
Operator : ROFNEL
Acquired : 1 Aug 2017 14:14 using AcqMethod SOMTO SCAN.M
Instrument : GCMS
Sample Name: sample 31
Misc Info : bacteria analysis
Vial Number: 2



(B)

File : C:\Users\admin\Desktop\UNIV\1 AUGST2017005.D
Operator : ROFNEL
Acquired : 1 Aug 2017 16:24 using AcqMethod SOMTO SCAN.M
Instrument : GCMS
Sample Name : sample 4
Misc Info : bacteria analysis
Vial Number : 5



Supplemental Material e: Total ion chromatogram (GC-MS) of PHA produced by *P. rettgeri* (A) and *S. koreensis* (B)