

**Isolate N. 3 (15004) - *Streptococcus parauberis* (Identity ID 99.20%)**

TAACTAATTGATTTCCATCAACAGTTTTGACTTTAGTTTGAGTAGCATCGAATAATGAACCGAAAGACATACCAACGA  
TATCAGATGATACGATTGGATCTTCAGTGTAACCATATGAATCATTAGCTGCAGCTTTCATTACTGAGTTAATTTCTTCT  
ACTGAAGTTTCTTTATTAAGAACTGCTACTAATTCTGTTACTGAACCTGTTGGAACGGTACACGTTGTGCAGCACCGT  
CAAGTTTACCATTTAATTCAGGGATAACAAGACCGATTGCTTTAGCAGCACCAAGTTGAGTTAGGAACGATATTGTTAG  
CACCAGCACGGGCACGACGTAAGTCACCACCACGGTGAGGTCCATCAAGAAGCATTTGATCCCCAGTGTAAGCGTG  
ATTGTAGTCATTAAACCTTGTTTTACGCCAAAGTTATCTTGTAAGCTTTAGCCATTGGAGCTAAACAGTTTGTAGTACA  
TGAAGCACCTGAAATAACTGTTTCAGTTCATCAAGGATATCATGGTTAGTGTTAAATACAACCTGTTTTCAGTCATCTC  
CACCAGGAGCAGTGATAACAACCTTTTTAGCACCATTTTCATGTAAATGTTTTTCAGCAGCTGCTTTTTTAGCAAAGAA  
ACCAGTTGCTTCAAGAACGATTTCAACACCGTCAGTTGCCAGTCAATTTGTTCTGGATCTTTTCAGCAGAACTTTAA  
TGAATTTTCCGTTAACGTCAAATCCACCATCTTTAACTTCTACAGTACCGTCAAAACGACCTTGAGTTTGTATCGTATTTT  
AACAAGTGTGCAAGCATATTTGGGATCTGTAAAGGTCGTTGATGCGAGTAACTTCAACACCTTCCTACATTTTGAATAC  
GACGG

|   | Description                                                                                                             | Scientific Name                    | Max Score | Total Score | Query Cover | E value | Per. Ident | Acc. Len | Accession                  |
|---|-------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------|-------------|-------------|---------|------------|----------|----------------------------|
| ✓ | <a href="#">Streptococcus parauberis strain SPOF3K chromosome complete genome</a>                                       | <a href="#">Streptococcus p...</a> | 1581      | 1581        | 100%        | 0.0     | 99.32%     | 2128740  | <a href="#">CP025420.1</a> |
| ✓ | <a href="#">Streptococcus parauberis KCTC 11537 complete genome</a>                                                     | <a href="#">Streptococcus p...</a> | 1576      | 1576        | 100%        | 0.0     | 99.20%     | 2143887  | <a href="#">CP002471.1</a> |
| ✓ | <a href="#">Streptococcus parauberis glyceraldehyde-3-phosphate dehydrogenase gene complete cds</a>                     | <a href="#">Streptococcus p...</a> | 1576      | 1576        | 100%        | 0.0     | 99.20%     | 1011     | <a href="#">AF421901.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain SS131025-3 glyceraldehyde-3-phosphate dehydrogenase (gapC) gene complete...</a> | <a href="#">Streptococcus u...</a> | 1266      | 1266        | 100%        | 0.0     | 92.82%     | 1011     | <a href="#">KU588171.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain SS131025-2 glyceraldehyde-3-phosphate dehydrogenase (gapC) gene complete...</a> | <a href="#">Streptococcus u...</a> | 1266      | 1266        | 100%        | 0.0     | 92.82%     | 1011     | <a href="#">KU588170.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain SS131025-1 glyceraldehyde-3-phosphate dehydrogenase (gapC) gene complete...</a> | <a href="#">Streptococcus u...</a> | 1266      | 1266        | 100%        | 0.0     | 92.82%     | 1011     | <a href="#">KU588169.1</a> |
| ✓ | <a href="#">Streptococcus uberis 0140J complete genome</a>                                                              | <a href="#">Streptococcus u...</a> | 1149      | 1149        | 100%        | 0.0     | 90.42%     | 1852352  | <a href="#">AM946015.1</a> |

**Isolate N. 7 (42465) - *Streptococcus ruminantium* (ID 97.42%)**

[illegible]

|   |                                                                                  |                                           | Score | Score | Cover | value | ident  |         |                            |
|---|----------------------------------------------------------------------------------|-------------------------------------------|-------|-------|-------|-------|--------|---------|----------------------------|
| ✓ | <a href="#">Streptococcus sp. DAT741.chromosome_complete_genome</a>              | <a href="#">Streptococcus sp. DAT741</a>  | 1375  | 1375  | 99%   | 0.0   | 97.42% | 2105284 | <a href="#">CP019557.1</a> |
| ✓ | <a href="#">Streptococcus ruminantium GUT-189.DNA_complete_genome</a>            | <a href="#">Streptococcus ruminantium</a> | 1375  | 1375  | 99%   | 0.0   | 97.42% | 2081190 | <a href="#">AP025333.1</a> |
| ✓ | <a href="#">Streptococcus ruminantium GUT-183.DNA_complete_genome</a>            | <a href="#">Streptococcus ruminantium</a> | 1375  | 1375  | 99%   | 0.0   | 97.42% | 2175328 | <a href="#">AP025331.1</a> |
| ✓ | <a href="#">Streptococcus ruminantium GUT187T.DNA_complete_genome</a>            | <a href="#">Streptococcus ruminantium</a> | 1369  | 1369  | 99%   | 0.0   | 97.30% | 2090539 | <a href="#">AP018400.1</a> |
| ✓ | <a href="#">Streptococcus ruminantium GUT-184.DNA_complete_genome</a>            | <a href="#">Streptococcus ruminantium</a> | 1369  | 1369  | 99%   | 0.0   | 97.30% | 2115310 | <a href="#">AP025332.1</a> |
| ✓ | <a href="#">Streptococcus suis strain NCTC10237.genome_assembly_chromosome:1</a> | <a href="#">Streptococcus suis</a>        | 1214  | 1214  | 99%   | 0.0   | 93.87% | 2070644 | <a href="#">LR594043.1</a> |
| ✓ | <a href="#">Streptococcus suis strain 1081.chromosome_complete_genome</a>        | <a href="#">Streptococcus suis</a>        | 1214  | 1214  | 99%   | 0.0   | 93.87% | 2228089 | <a href="#">CP017667.1</a> |
| ✓ | <a href="#">Streptococcus suis strain 0061.chromosome_complete_genome</a>        | <a href="#">Streptococcus suis</a>        | 1214  | 1214  | 99%   | 0.0   | 93.87% | 2138420 | <a href="#">CP017666.1</a> |

**Isolate N. 14 (86773) - *Streptococcus parauberis* (Identity ID 98.67%)**

CCTNCTCCAAGTGTGCGAACAAGTGAGCAGTGTAGACATTTTCATTGTCATACCATGAAACAACCTTTANTAATGATTCCCA  
TCAACAGTTTGTACTTTAGTTTGAGTAGCATCGAATAATGAACCGAAAGACATACCAACGATATCAGATGATACGATT  
GGATCTTCAGTGTAAACCATATGAATCATTAGCTGCAGCTTTTCATTACTGAGTTAATTTCTTCTACTGAAGTTTCTTTATTA  
AGAACTGCTACTAATTCTGTTACTGAACCTGTTGGAAGTGGTACACGTTGTGCAGCACCGTCAAAGTTTACCATTTAAT  
TCAGGGATAACAAGACCGATTGCTTTAGCAGCACCAGTTGAGTTAGGAACAATATTGTTAGCACCAGCACGGGCACG  
ACGTAAGTCACCACCACGGTGAGGTCCATCAAGAAGCATTTGATCACCAGTGTAAAGCGTGGATTGTAGTCATTAAACC  
TTGTTTTACGCCAAAGTTATCTTGTAAGCTTTAGCCATTGGAGCTAAACAGTTTGTAGTACATGAAGCACCTGAAATA  
ACTGTTTCAGTTCCATCAAGGATATCATGGTTAGTGTTAAATACAACCTGTTTTACGTCATCTCCACCAGGAGCAGTGA  
TAACAACTTTTTAGCACCATTTTCATGTAAATGTTTTTCAGCAGCTGCTTTTTAGCAAAGAAACAGTTGCTTCAAGA  
ACGATTTCAACACCGTCAGTTGCCAGTCAATTTGTTCTGGATCTTTTTCAGCAGAACTTTAATGAATTTTCCGTTAAC  
GCCAAATCCACCATCTTTAACTTGACAGTACCGTCA

|   | Description                                                                                                               | Scientific Name                    | Max Score | Total Score | Query Cover | E value | Per. Ident | Acc. Len | Accession                  |
|---|---------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------|-------------|-------------|---------|------------|----------|----------------------------|
| ✓ | <a href="#">Streptococcus parauberis KCTC 11537, complete genome</a>                                                      | <a href="#">Streptococcus p...</a> | 1465      | 1465        | 99%         | 0.0     | 98.79%     | 2143887  | <a href="#">CP002471.1</a> |
| ✓ | <a href="#">Streptococcus parauberis strain SPOF3K chromosome, complete genome</a>                                        | <a href="#">Streptococcus p...</a> | 1459      | 1459        | 99%         | 0.0     | 98.67%     | 2128740  | <a href="#">CP025420.1</a> |
| ✓ | <a href="#">Streptococcus parauberis glyceraldehyde-3-phosphate dehydrogenase gene, complete cds</a>                      | <a href="#">Streptococcus p...</a> | 1459      | 1459        | 99%         | 0.0     | 98.67%     | 1011     | <a href="#">AF421901.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain SS131025-3 glyceraldehyde-3-phosphate dehydrogenase (gapC) gene, complete cds</a> | <a href="#">Streptococcus u...</a> | 1177      | 1177        | 99%         | 0.0     | 92.48%     | 1011     | <a href="#">KU588171.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain SS131025-2 glyceraldehyde-3-phosphate dehydrogenase (gapC) gene, complete cds</a> | <a href="#">Streptococcus u...</a> | 1177      | 1177        | 99%         | 0.0     | 92.48%     | 1011     | <a href="#">KU588170.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain SS131025-1 glyceraldehyde-3-phosphate dehydrogenase (gapC) gene, complete cds</a> | <a href="#">Streptococcus u...</a> | 1177      | 1177        | 99%         | 0.0     | 92.48%     | 1011     | <a href="#">KU588169.1</a> |

**Isolate N. 15 (10255) - *Streptococcus uberis* (Identity ID 99.67%)**

GTGCAGTGTAAAGACATTTGTTGTCATACCATGAAACAACCTTTAACTAATTGATTTCCATCAACAGTTTGTACTTTAGTT  
TGAGTAGCATCAAACAATGAACCGTAAGCCATACCGATGATATCAGAAGATACGATTGGGTCTTCAGTGTATCCGTAT  
GAATCGTTTGCAGCTGCTTTTCATTGCTGCGTTGATTTCTTCAACTGAAGTTTCTTTTCAAGAACTGCTACTAATTCAGTT  
ACTGATCCAGTTGGAACAGGAACACGTTGTGCAGCACCGTCAAGTTTACCATTTAATTCTGGGATTACAAGACCGATT  
GCTTTAGCAGCACCAGTTGAGTTAGGAACAATGTTGTTTGCACCAGCACGAGCACGACGAAGGTCACCACCACGGTG  
TGGTCCGTCAAGGATCATTTGGTCAACAGTGTAAAGCGTGGATAGTTGTCATCAAACCTTGTTTAAACCAAAGTTATCT  
TGTAAGCTTTAGCCATTGGAGCTAAACAGTTAGTAGTACATGAAGCACCTGAAATTACAGTTTCTGTACCGTCAAGA  
ATGTCATGTTTGTGTTAAATACAACAGTTTAAACATCATCTCCACCAGGAGCTGTGATAACAACCTTTTTAGCACCATT  
AGCATGTAAATGTTTTTTCAGCAGCTGCTTTTTTAGCAAAGAAACAGTTGCTTCAAGAACGATTTCTACACCGTCAGTT  
GCCAGTCAATGTTTTCTGGATCTTTTTTCAGCAGAACTTTGATGAAGTTTCCGTTAACTTCGAATCCACCATCTTTAAC  
TTCAACTGTACCGTCGAAACGACCTTGAGTTGTATCATATTTCAACAAGTGTGCAAGCATATTTGGGTACAGTAAATCG  
TTAATA

|   | Description                                                                                                              | Scientific Name                    | Max Score | Total Score | Query Cover | E value | Per. Ident | Acc. Len | Accession                  |
|---|--------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------|-------------|-------------|---------|------------|----------|----------------------------|
| ✓ | <a href="#">Streptococcus uberis strain NCTC4674 genome assembly, chromosome: 1</a>                                      | <a href="#">Streptococcus u...</a> | 1679      | 1679        | 99%         | 0.0     | 99.78%     | 2024265  | <a href="#">LS483408.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain NZ01 chromosome, complete genome</a>                                             | <a href="#">Streptococcus u...</a> | 1679      | 1679        | 99%         | 0.0     | 99.78%     | 1863842  | <a href="#">CP022435.1</a> |
| ✓ | <a href="#">Streptococcus uberis 0140J complete genome</a>                                                               | <a href="#">Streptococcus u...</a> | 1674      | 1674        | 99%         | 0.0     | 99.67%     | 1852352  | <a href="#">AM946015.1</a> |
| ✓ | <a href="#">Streptococcus uberis glyceraldehyde-3-phosphate dehydrogenase gene, complete cds</a>                         | <a href="#">Streptococcus u...</a> | 1674      | 1674        | 99%         | 0.0     | 99.67%     | 1011     | <a href="#">AF421900.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain NCTC3858 genome assembly, chromosome: 1</a>                                      | <a href="#">Streptococcus u...</a> | 1668      | 1668        | 99%         | 0.0     | 99.56%     | 1975601  | <a href="#">LS483397.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain FSL Z2-047 glyceraldehyde-3-phosphate dehydrogenase (gapC) gene, partial cds</a> | <a href="#">Streptococcus u...</a> | 1522      | 1522        | 90%         | 0.0     | 99.88%     | 827      | <a href="#">GU392486.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain FSL Z2-191 glyceraldehyde-3-phosphate dehydrogenase (gapC) gene, partial cds</a> | <a href="#">Streptococcus u...</a> | 1517      | 1517        | 90%         | 0.0     | 99.76%     | 827      | <a href="#">GU392493.1</a> |
| ✓ | <a href="#">Streptococcus uberis strain FSL Z2-262 glyceraldehyde-3-phosphate dehydrogenase (gapC) gene, partial cds</a> | <a href="#">Streptococcus u...</a> | 1517      | 1517        | 90%         | 0.0     | 99.76%     | 827      | <a href="#">GU392495.1</a> |