| 1 | Supplementary Information for "Structure and composition of early |
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| 2 | biofilms formed on dental implants are complex, diverse, subject- |
| 3 | specific and dynamic" |
| 4 | Short title: Biofilms on implants: supplementary information |
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| 15 | Hannover, Germany. |
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- 34 Supplementary Fig. 1 Confocal images of biofilms formed on implant abutments and biofilm parameters.
- 35 a CLSM micrographs. Images, which represent maximum intensity projections, are sorted by patients (different rows),
- 36 age of biofilms in weeks (three sets of columns) and area numbers. Images number 1 to 5, representing all replicates
- 37 mapped Fig. 1b, are shown from left to right for each week. Each image has a size of 800 µm by 800 µm. In some
- 38 cases human cells and no or little microbial biofilms were observed. **b** Relationship between biofilm parameters.
- 39 Scatter plots for pairs of measurements. Highly correlated measurements are indicated in red. Representative
- 40 micrographs of biofilm shown. The percentage of volume representing non-permeable "live" cells was calculated as
- 41 the volume of all cells minus the volume of permeable "dead" cells. The bar represents 100 μ m. c d Biofilm
- 42 parameters were calculated as an average value for abutments (five CLSM images each) Box plots (n = 5) show all
- 43 twelve patients indicated by symbols and the three time points indicated by box colors. c Biofilm volume. d Percent of
- 44 volume representing non-permeable "live" cells. e Area covered by biofilm.



45

46 Supplementary Fig. 2 Features of biofilm structures

47 a Biofilm from patient J formed by epithelial cells. Biofilm slices are shown. Elevated central surface with steep slope 48 is indicated with arrow. **b** Biofilm from patient K characterized by aggregates forming vertical projections. Projections 49 are indicated with arrow in 3D biofilm re-construction (left). Example aggregate was enlarged (right). c Biofilm from 50 patient F characterized by extensive scaffolding. Scaffolding cells were located at the bottom (left). Cell bundles 51 forming scaffolds were enlarged (right). d Biofilm from patient C characterized by aggregates formed by permeable 52 cells. 3D biofilm re-construction (left). Channels between aggregates filled by distinct population of non-permeable 53 cells were enlarged (right). e Biofilm from patient E characterized by the presence of chimneys. Chimney-like 54 structures protruded through the entire depth of biofilm (left). Section through chimney-like structure was enlarged 55 (right). f Biofilm from patient B characterized by mosaic of cell clusters. 3D biofilm re-construction (left). Upper 56 location of aggregates formed by permeable cells is indicated with arrow (right).



58 Supplementary Fig. 3 Composition of biofilms at genus level, their dynamics and their relationships with biofilm parameters 59 a Relative abundance of reads grouped at the genus level and plotted for each patient-time point combination as well 60 as for average profile. The most abundant genera are shown, while the reads matching other genera were summed up 61 and plotted together as "Other". b Most abundant genera. c Most prevalent genera. d Pearson's correlation values 62 between time and abundances of selected genera. Heat map shows correlation values for the abundances of the genera 63 in each patient. Genera are sorted by decreasing median values across patients from top to bottom. Median values are 64 plotted next to the heatmap. e Correlations between parameters describing biofilm structures and relative abundances 65 for selected genera. Only genera showing absolute values of correlation higher than 0.3 with at least one parameter are 66 shown. f Coherent variable curves. Line plots of relative abundances (for Gemella, Granulicatella, and Schaalia) and 67 for % of volumes filled by non-permeable cells in biofilm reflecting viability.





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69 Supplementary Fig. 4 Relationship between bacterial relative abundances at three taxonomic levels.

70 R-mode analysis using pairwise Whittaker's associations was performed for taxa at three different taxonomic levels. A

71 Similarity profile for species. B Dendrogram for species. C Similarity profile for genera. D Dendrogram for genera. E

- 72 Similarity profile for classes. F Dendrogram for classes. Type 2 SIMPROF tests were performed to validate the
- 73 hypothesis that there is no associations of any sort among taxa. Values were permuted 100,000 times for each taxon

74 across all samples. Type 3 SIMPROF tests were performed for grouping of taxa detected with type 2 test to validate 75 the hypothesis that the associations within these subsets are not distinguishable, i.e. that the taxa are coherent in their 76 patterns of abundance across the full sample set. This time values orthogonal permutation scheme was applied (n = 77 100,000), namely taxa we permuted across the subset of taxa. For each taxonomic levels similarity profile with inset 78 visualizing distribution of the distance π (left), and dendrogram (agglomerative, group average linked) from an index 79 of association matrix among taxa (right) are shown. Similarity profiles were obtained by computing the indices of 80 association, ordering them (y axis) and plotting against their ranks (x axis) to generate continuous black line. Also 81 shown, for each value of x, is the mean index (continuous grey line) from 100,000 permutations of the data matrix 82 (under the null hypothesis), and the range (dashed grey lines) in which 99% of the permuted index values lie. In inset 83 the distribution of the distance π of (a further) 100,000 permuted profiles from the mean profile, in comparison with π 84 for the real profile (seen not to come from the null, establishing the existence of taxon associations). In dendograms 85 grey lines and grey boxes denote the coherent groups of taxa containing more than one taxon. Broad levels of 86 SIMPROF tests (5%, 1%, 0.1%, and 0.01%) were compared to discover stable relationships.

87







90 Ecological interactions were inferred using a custom-made database. Briefly, for all taxa that reached at least 2% of

- 91 relative abundance, information on interspecies interactions were retrieved from the literature, transformed into a
- 92 graph database and visualized using custom-made circular graphs. Ecological profiles are placed in similar orientation
- 93 as in Fig. 3, except that the missing ecological profile for patient J was replaced with a comprehensive figure legend.
- 94 The ordination in the middle was constructed using the relative abundance of reads grouped to species.





96 Supplementary Fig. 6 ASV diversity.

- 97 **a** ASVs detected for the most abundant species in the studied population, plotted as a function of sequencing depth for
- 98 each species. Species are colored by class. **b** ASVs detected per patient for the most abundant species, also shown as a
- 99 function of sequencing depth. c Re-sampled data showing ASV distributions. d ASV diversity across different patients.
- 100 e ASV diversity across various time points.

101

- 102 Supplementary File 1. List of microbe-metabolite/enzyme interactions predicted in early biofilms
- 103 The rows represent relationships between taxa and other metabolites, enzymes or biofilm structures. For each
- 104 relationship, the object type, supporting evidence, comments, references, links to other databases and corresponding
- 105 visualization (either Fig. 7c or Supplementary Figure 5) are provided.

| TAYON | HNIT (HOND | DEI ATIONEUR | ORIECT | OR IECT TYPE | using in using | 50 | VECO | EVIDENCE | CURATORS COMMENTS | DECEDENCES | DabModt | D-MM/d) | Claure |
|--|---|--|---|--|--|--|--------------------------------------|--|--|---|--|--|----------------|
| Abieterchia defartiva | 289 https://www.hom/.om/tava/tav_description?htids289 | PRODUCES | larfe arif | matabolite | HMDR0001190 https://hmdb.ca/metabolites.HMDR0000 | 190 n/a | nia | evidence | CONVEXTS CONVEXTS | REFERENCES Barnay's Manual of Systematic Bartaciolony, Vol. 3,5 Edo. 2nd | nia | n/a | S4 |
| Abiotrophia defectiva | 389 https://www.homd.org/taxa/tax_description?otid=389 | USES | L-cysteine | metabolite | HMDB0000574 https://hmdb.ca/metabolites/HMDB0000 | 574 n.la | ala | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | S4 |
| Abiotrophia defectiva | 389 https://www.homd.org/taxa/tax_description?otid=389 | USES | pylidoxal | metabolite | HMDB0001545 https://hmdb.ca/metabolites/HMDB0001 | 545 n.la | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | S4 |
| Actinomaces sp. OTU_14 | ain ain | PRODUCES | fucosidase | enzyme | nia nia | r/a | ala | prediction | Prediction based on the characteristics of related A. naselundil. Data retrived from review and not original research atticle. Some. | Bargay's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | ala | nla | S4 |
| Actinomaces sp. OTU_14 | ala ala | PRODUCES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB0000 | 190 n.la | ala | prediction | Prediction based on the characteristics of related A naselundii. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | S4 |
| Actinomaces sp. OTU_14 | nla nia | PRODUCES | menequinone | metabolite | nia nia | n/a | nia | prediction | Prediction based on the characteristics of Actinomyces genus. Fetrahydrogenated menageinones with ten isoprene units [MK-10[H4]] are the major respiratory quinones. | Femandez1987 10.1111§ 1574-6968.1987.tb02191.x | nia | nia | _ |
| Actnomaces sp. UTU_14 Actionments cp. 0TU_14 | 20 20 20 20 20 20 | INCOLOUS | nitte | metabolite | HMUB000276 https://www.caimetabolites.HMUB0002 | (65 f/A 272 c/a | na ela | prediction | Prediction based on the characteristics of related A networks. User retrieved tion review and not objinal research and the | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | 09 09 | | 54 |
| Actinomacas sp. 010_14 Actinomyces israelii | 645 https://www.homd.org/laxa/tax_description?otid=645 | IS INHRITED BY | cxvoen | metabolite | HMDB0001377 https://hmdb.ca/metabolites/HMDB0001 | 377 n/a | ria ria | excerimental | Protection based on the characteristics Ar instruments, balan territor from when are not oppranteseen at account | Bergey's Manual of Systematic Bacteriology, Vol. 3-6, Edit. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edit. 2nd. | na | 0/9 | 54 S4 |
| Actinomyces israelii | 645 https://www.homd.org/taxa/tax_description?otid=645 | PRODUCES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB0000 | 190 n.la | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | S4 |
| Actinomyces israelii | 645 https://www.homd.org/taxa/tax_description?otid=645 | PRODUCES | menaquínone | metabolite | ala ala | nia | nia | experimental | Tetrahydrogenated menaquinones with ten isoprene units [MK-10]H4] are the major respiratory quinones. | Fernandez1987 10.1111§ 1574-6968.1987.tb02191.x | a'n | nia | |
| Actinomyces israelii | 645 https://www.homd.org/taxa/tax_description?otid=645 | PRODUCES | attin | metabolite | HMDB0002786 https://hmdb.ca/metabolites/HMDB0002 | 786 n/a | ala | experimental | Data retrived from review and not original research article. Usually. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | S4 |
| Actinomyces israelii | 645 https://www.homd.org/taxa/tax_description?otid=645 | USES | adenine | metabolite | HMDB0000034 https://hmdb.ca/metabolites/HMDB0000 | 334 n/a | nia | experimental | Data retrived from review and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | S4 |
| Actinomyces israelii | 645 https://www.homd.org/taxa/tax_description/clid=645 | 10050 | ngate Trunico | metabolite | HMDB0002878 https://www.ca/metabolites.HMDB0002 | 5/6 fi/a 392 ala | na ela | experimental | Las retried non review and or optimal research and the | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | 09 09 | | 54 |
| Actinomyces cris | 893 https://www.homd.org/taxa/tax_description?otid=893 | PRODUCES | lucosidase | enzyme | nia nia | n/a | ela | experimental | Data strete for review and not object instance. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | S4 |
| Actinomyces oris | 893 https://www.homd.org/taxa/tax_description?otid=893 | PRODUCES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB0000 | 190 n.la | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | S4 |
| Actinomyces oris | 893 https://www.homd.org/taxa/tax_description?otid=893 | PRODUCES | menaquinone | metabolite | nia nia | r/a | ala | prediction | Prediction based on the characteristics of Actinomyces genus. Tetrahydrogenated menaquinones with ten isoprene units [MK-10];H4] are the major respiratory quinones. | Femandez1987 10.1111§ 1574-6968.1987.tb02191.x | ala | nla | |
| Actinomyces oris | 893 https://www.homd.org/taxa/tax_description?otid=893 | PRODUCES | attin | metabolite | HMDB0002786 https://hmdb.ca/metabolites/HMDB0002 | 786 n/a | ala | experimental | Data notived from review and not original research article. Variable. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | S4 |
| Actinomyces oris | 893 https://www.homd.org/taxa/tax_description?otid=893 | USES | nitrate | metabolite | HMDB0002878 https://hmdb.ca/metabolites/HMDB0002 | 878 n/a | nia | experimental | Data estrived from review and not original research article. Variable. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | S4 |
| Adinomyces sp. HMT-169 Adinomyces sp. HMT-169 | 169 https://www.homd.org/asia/tax_description?otid=169 169 https://www.homd.org/laxa/tax_description?otid=169 | PRODUCES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metaboiles/HMDB0000 | 190 n/a | ria ria | prediction | Protection based on the transmission or name Ar instantion or total retrieve more new with the original research and/or. Some Prediction based on the characteristics of instantiation activity and instantiation instantiation instantiation. | Bergey's Manual of Systematic Bacteriology, Vol. 3-6, Edit. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edit. 2nd. | na | 0/9 | 54 S4 |
| Actinomyces sp. HMT-169 | 169 https://www.homd.org/taxa/tax_description?otid=169 | PRODUCES | menaquinone | metabolite | ein ein | nia | nia | prediction | Prediction based on the characteristics of Actinomyces genus. Tetrahydrogenated menacyinones with ten isoprene units (M-10)H4) are the major respiratory quinones. | Femandez1987 10.1111/j.1574-6968.1987.tb02191.x | nia | nia | - |
| Actinomyces sp. HMT-169 | 169 https://www.homd.org/taxa/tax_description?otid=169 | PRODUCES | atrin | metabolite | HMDB0002785 https://hmdb.ca/metabolites/HMDB0002 | 786 n/a | ala | prediction | Prediction based on the characteristics of related A nasekundii. Data retrived from review and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia . | nla | S4 |
| Actinomyces sp. HMT-169 | 169 https://www.homd.org/taxa/tax_description?otid=169 | USES | nitrate | metabolite | HMDB0002878 https://hmdb.ca/metabolites/HMDB0002 | 878 n/a | nia | prediction | Prediction based on the characteristics of related A. nasekundii. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | a'n | nia | S4 |
| Aggregatibacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | PRODUCES | (proto)porphyrin | metabolite | nia nia | nia | ala | experimental | | NarskovLauritsen2005 10.1099iijs.0.64207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | nla | 7c |
| Aggregatibacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | PRODUCES | akaine phosphatase | erzyme | nia nia | 3.1.3.1 | https://www.genome.jp/entry/3.1.3.1 | experimental | | NarskovLauritsen2006 10.1099/js.0.64207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | nla | 70 |
| Appropriate and the second sec | 545 https://www.homd.com/taxaltax_description/totic545 | PRODUCES | cell annrenatos | hiefin concept | ein ein | nia | ria | experimental | | Nankov avriteer 2005 10 1999 is 0 64207-0 | https://www.indonesian.com/16957111/ | nia | 70 |
| Apprepatibacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | PRODUCES | nitrate reductase | enzyme | nia nia | r/a | ela . | experimental | | NarskovLauritsen2005 10.1099/iis.0.54207-0 | https://oubmed.ncbi.nlm.nih.gov/16957111/ | nia | 70 |
| Aggregatibacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | PRODUCES | atrin | metabolite | HMDB0002786 https://hmdb.ca/metabolites/HMDB0002 | 786 n/a | nia | experimental | | NarskovLauritsen2005 10.1099ijs.0.54207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | nla | 7c |
| Aggregatibacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | USES | alpha-lactose | metabolite | HMDB0000186 https://hmdb.ca/metabolites/HMDB0000 | sao nia | ala | experimental | Fermentation. | NarskovLauritsen2005 10.1099ijs.0.64207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | nla | 7c |
| Aggregatibacter ephrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | USES | carbon dioxide | metabolite | HMDB0001957 https://hmdb.ca/metabolites/HMDB0001 | 967 n.la | nia | experimental | | NarskovLauritsen2005 10.1099/ijs.0.64207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | nia | 7c |
| Aggregatibacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | USES | D-fructose | metabolite | HMDB0000660 https://hmdb.ca/metabolites/HMDB0000 | 560 n/a | nia | experimental | Fermination | NarskovLauritsen2005 10.1099ijs.0.64207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | nia | 70 |
| Aggingatowciar aprropriitis Aggingatowciar aprropriitis | 545 https://www.hond.org/taxatax_description/ddd=545 | USES | D-glucose | meaconé | HMDB0000122 https://mito.cameacongs/HMDB0000 | 122 nia | nu pla | experimental | Permanautor | NarskovLauritsen2005 10.1004/00 0 A2017-0 | https://pubmed.ncbi.nlm.nih.gpv1605/111/ | nia | 70 |
| Aggregatibacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | USES | D-maltose | metabolite | HMDB00001953 https://hmdb.ca/metabolites/HMDB0000 | 163 n/a | nia | experimental | Fernandation | NarskovLauritsen2005 10.1099/js.0.54207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | nia | 70 |
| Aggregatibacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | USES | D-mannose | metabolite | HMD80000199 https://hmdb.ca/metabolites/HMD80000 | 199 n/a | nia | experimental | Fernanation | NarskovLauritsen2006 10.1099/ijs.0.64207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | nia | 7c |
| Aggregatibacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | USES | hemin | metabolite | HMDB0000887 https://hmdb.ca/metabolites/HMDB0000 | 887 nia | ain | experimental | | NarskovLauritsen2005 10.1099/ijs.0.64207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | nla | 7c |
| Aggregatbacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | USES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolitas/HMDB0000 | 190 n.la | nia | prediction | Prediction based on the characteristics of related A actinomycetemcontinus species. | Brown2009 10.1371/journal.pone.0007864 | https://pubmed.ncbi.nlm.nih.gov/19924225/ | nia | 7c |
| Aggregatbacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | USES | maltotriose | metabolite | HMDB0001252 https://hmdb.ca/metabolites/HMDB0001 | 262 n.la | nia | experimental | Fernentation. | NarskovLauritsen2006 10.1099/ijs.0.64207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | n/a | 70 |
| Aggregatibacter aphrophilus | 545 maps review hand anglaxalax_description?otid=545 | uses nicotin | amide adenine dinucleotide | metabolite | HMUBUUU2902 https://hmdb.ca/metabolites.HMDB0000 UMIDB0002928 https://hmdb.ca/metabolites.HMDB0000 | 922 nia | nia (1 | experimental | | NarskovLauritsen2005 10.1099/js.0.54207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | 0/2 | 70 |
| Aggregatoacter aprrophius Appregatoacter aprrophius | 545 https://www.homd.org/taxaitax_desorption?otid=545 | USES | raffense | metabolite | HMDR0003213 https://mdb.ca/metabolites/HMDB0002 HMDR0003213 https://hmdb.ca/metabolites/HMDB0002 | 213 6/2 | nia ola | experimental experimental | Fernantaline | NarskovLauntsetzoob 10.1055/gs.0.54207-0 NarskovJ auritsen2005 10.1059/js.0.54207-0 | https://pubmed.ncbi.nim.nih.gov/1695/111/ | nia ola | 70 |
| Accreciational appropriate Accreciational appropriate | 545 https://www.homd.org/taxaitax_desorption/https:// | USES | SUCCOSE | metabolite | HMDB000258 https://mdb.ca/matabolites/HMDB0003 | 258 n/a | ala ala | experimental | - errenaliston | NarskovLauritsen2005 10.1058/jb.0.54207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | n/a | 70 |
| Aggregatbacter aphrophilus | 545 https://www.homd.org/taxa/tax_description?otid=545 | USES | trehalose | metabolite | HMDB0000775 https://hmdb.ca/metabolites/HMDB0000 | 775 n.la | nia | experimental | Fernanzian | NarskovLauritsen2006 10.1099/js.0.64207-0 | https://pubmed.ncbi.nlm.nih.gov/16957111/ | nia | 70 |
| Alloscardovia omnicolens | 156 https://www.homd.org/taxa/tax_description?otid=198 | IS_INHERTED_BY | oxygen | metabolite | HMDB0001377 https://hmdb.ca/metabolites/HMDB0001 | 377 n.ia | nia | experimental | Data natrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | n/a // | S4 |
| Alloscardovia omnicolans | 156 https://www.homd.org/taxa/tax_description?otid=198 | PRODUCES | lactic acid | metabolite | HMDB0000190 https://www.ca/metabolites.HMDB0000 | 190 n.la | nia | prediction | Prediction based on the characteristics of Bifdobecterisceae family. Data retrieved from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | a'a | nla | S4 |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | DEGRADES | gelatine | metabolite | nia nia | n/a | nia | experimental | Data retrived from review and not original research article. | Bargay's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | e e e e e e e e e e e e e e e e e e e | nia | 7c |
| Arachna proponica | 739 https://www.homd.org/taxa/tax_description/ctid=739 730 https://acces.bomd.org/taxa/tax_description/ctid=739 | IS A HOST FOR Second | bacteria bacterium HMT 488 Ibacteria bacterium HMT 955 | 12401 | na na | n/a c/a | na ela | experimental | | Bor2020 10.1177/0022034520905792; Murugkar2020 10.108020002297 2020 1814666 Bar2020 10.1177/0022034520905292; Murugkar2020 10.108020002297 2020 1814666 | https://pubmed.ncbi.nlm.nlh.gov/22075512/ https://pubmed.nc https://pubmed.ncbi.nlm.nlh.gov/22075512/ https://pubmed.nc | zbunin nin gowisszoszosi schi alm alb apu/22209205/ | 70 |
| Arachnia propionica Arachnia consisteira | 739 https://www.homi.org/anartax_description?ntid=739 | PRODUCES SECOND | ainha.nalartnsifase | 607VTI0 | nia nia nia nia | 32122 | https://www.opnoma.in/potty/3.2.1.22 | experimental | Data natival firms review and not initial seasanth affela | Barnav's Manual of Systematic Barteriolony. Vol. 3,5. Edn. 2nd | nips./pubmec.ncbi.nint.nint.gov.22075512/teps./pubmec.ncb | n/a | 70 |
| Arachria proportica | 739 https://www.homd.org/taxa/tax_description?otid=739 | PRODUCES | alpha-glucosidase | enzyme | nia nia | 32.1.20 | https://www.gerome.jo/entry/3.2.1.20 | experimental | Data strive for menes and no digital stratechards. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | 70 |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | PRODUCES end | syme degrading geletine | enzyme | ala ala | nia | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | 7c |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | PRODUCES | esterase (C4) | enzyme | nia nia | r/a | nia | experimental | Data retrived from review and not original research article. | Bargay's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | ala | nla | 7c |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | PRODUCES | esterase (C8) | enzyme | ala ala | nia | t/a | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | a'n | nia | 7c |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | PRODUCES | hyaluronidase | erzyme | nia nia | 3.2.1.35 | https://www.genome.jp/entry/3.2.1.35 | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | 7c |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | PRODUCES | menequinone | metabolite | nia nia | n/a | ala | experimental | Tetrahydrogenated menogrames with nine isopnet units (MK-3(H4)) are the major respiratory quinones. | Fernandez1987 10.1111 § 1574-6968.1987.tb02191 x | nia | nla | 70 |
| Arachna proponica Arachaia anasiasion | 739 https://www.homd.org/taxa/tax_description/ctid=739 730 https://acces.bomd.org/taxa/tax_description/ctid=739 | PRODUCES N-40 | etys-beta-glucosaminidase | erzyme | na na | 3.2.1.52 | https://www.genome.jprently/3.2.1.52 | experimental | Ligat verticed for revealent and not original research ancie. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | 09 09 | | 70 |
| Aranhaia proponica | 739 https://www.homd.com/taxaltax_description?otid=739 | PRODUCES | nitite | mataholite | HMDB0002785 https://hmdb.ca/metabolites/HMDB0002 | 785 ela | da | experimental | Data entrine since require and not objet research active. | Banay's Manual of Systematic Bacteriology, Hol. 50, Edit 2112. | da da | nia | 70 |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | PRODUCES | propionic acid | metabolite | HMDB0000237 https://hmdb.ca/metabolites/HMDB0000 | 237 n.la | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | 70 |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | USES | alpha-lactose | metabolite | HMDB0000186 https://hmdb.ca/metabolites/HMDB0000 | 186 n.la | ain | experimental | Data retrived from review and not original research article. | Bargay's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | 7c |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | USES | carbon dioxide | metabolite | HMDB0001967 https://hmdb.ca/metabolites/HMDB0001 | 967 n.la | ala | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | 7c |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | USES | D-fructose | metabolite | HMDB0000660 https://hmdb.ca/metabolites/HMDB0000 | 960 n/a | nla | experimental | Data ratrived from review and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | 7c |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | USES | D-gelectose | metabolite | HMDB0000143 https://hmdb.ca/metabolites/HMDB0000 | 543 n/a | a'n | experimental | Data settived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | 70 |
| Arachnia propionica Arachnia consisteira | 739 https://www.homi.org/anartax_description?ntid=739 | USES | D-gecose D-mainse | mataholita | HMDB0000122 https://mtbb.ca/metabolites.HMDB0000 | 122 ma 163 n/a | nia cla | experimental | Data networks from reserve and not conjust research and/or | Bengey's Manual of Systematic Bacteriology, Vol. 3-6, Edit. 2nd. Bengey's Manual of Systematic Barteriology. Vol. 3-5, Edit. 2nd. | na ob | n'a | 70 |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | USES | D-mannose | metabolite | HMDB0000199 https://hmdb.ca/metabolites/HMDB0000 | 199 n/a | ela . | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5. Edn. 2nd. | nia | nia | 70 |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | USES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB0000 | 190 n.la | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | 7c |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | USES | nitrate | metabolite | HMDB0002878 https://hmdb.ca/metabolites/HMDB0002 | 878 n/a | ala | experimental | Data retrived from review and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia . | nla | 7c |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | USES | rafinose | metabolite | HMDB0003213 https://hmdb.ca/metabolites/HMDB0003 | 213 n/a | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | a'n | nia | 7c |
| Arachnia propionica | 739 https://www.homd.org/taxa/tax_description?otid=739 | USES | salicin | metabolite | HMDB0003545 https://hmdb.ca/metabolites/HMDB0003 | 545 n.la | nia | experimental | Data retrived from review and not original research article. | Bargay's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | 7c |
| Arachna proponica Arachnia anniotica | 739 https://www.homd.org/taxatax_description/otd=739 | 0665 | staron | messoone | file file UMDE00007358 https://www.colored.biolites.UMDE0000 | f/Q | 6/A | experimental | Liste retrieved tree review and not objent season ance. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Despects Monual of Systematic Bacteriology, Vol. 3 E. Edn. 2nd. | 112 | 00 00 | 70 |
| Arachria proportica | 739 https://www.homd.org/lana/tax_description?otid=739 | USES | trehalose | metabolite | HMDB0000775 https://hmdb.ca/metabolites/HMDB0000 | 775 n/a | r/a | experimental | Data retried for meters and no degram meters and. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | 0/9 | 70 |
| Bilidobecterium dentium | 588 https://www.homd.org/taxa/tax_description?otid=588 | IS INHETED BY | oxygen | metabolite | HMDB0001377 https://hmdb.ca/metabolites/HMDB0001 | 377 n.la | ala | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | S4 |
| Bilidobecterium dentium | 588 https://www.homd.org/taxa/tax_description?otid=588 | PRODUCES | amino acids | metabolite | nia nia | nia | ala | experimental | Data retrived from review and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia . | nla | S4 |
| Bilidobecterium dentium | 588 https://www.homd.org/taxa/tax_description?otid=588 | PRODUCES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB0000 | 190 n.la | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | a'n | nia | S4 |
| Billidobecterium dentium | 588 https://www.homd.org/taxa/tax_description?otid=588 | USES | menaquinone | metabolite | nia n/a | nia | ala | experimental | The growth of most Billidobacterium isolates, except that of B. urinalis, was stimulated by vitamin K. | Hojo2007 10.1111/j.1365-2672.2007.03436.x | https://pubmed.ncbi.nlm.nih.gov/17953607/ | ala | S4 |
| Bit doctecterium dentium Difficience dentium dentium | see musi-rever forme orgitalitation description?otid=588 | 1065 | pentotheric acid | metabolite | Herebool 2210 https://mmdb.ca/metabolites/HMDB0000 | ain tes | nia cio | experimental | Laan Aretwoor trom review and not of spinal instaurch article. | pargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Beneral Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | na | n/a | 54 |
| Bilidobacterium longum | 852 https://www.homd.org/taxaitax_desor/prior/hotels852 | IS INHERTED BY | oxygen | metabolite | HMDB0001377 https://hmdb.ca/matabolites/HMDB0000 | 177 n/a | ala ala | experimental | Data entrined from review and not original instance. | Bergey's Manual of Systematic Satisficiogy, vol. 3-0, con. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Evin 2nd | 08 | n/a | S4 |
| Bilidobacterium longum | 862 https://www.homd.org/taxa/tax_description?otid=862 | PRODUCES | amino acids | metabolite | nia n/a | nia | nia | experimental | Data natived from review and not original issearch article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nla | nia | S4 |
| Bilidobacterium longum | 862 https://www.homd.org/taxa/tax_description?otid=862 | PRODUCES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB0000 | 190 n.la | nia | experimental | Data natrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | n/a // | S4 |
| Bilidobacterium longum | 862 https://www.homd.org/taxa/tax_description?otid=862 | USES | menaquinone | metabolite | nia nia | nia | nia | experimental | The growth of most Bildobacterium isolates, except that of B uninalis, was stimulated by vitamin K. | Hojo2007 10.11116 1365-2672 2007.03436.x | https://pubmed.ncbi.nlm.nih.gov/17953607/ | nia | S4 |
| Caprocytophaga leadbetteri | 329 https://www.homd.org/taxa/tax_description?otid=329 775 https://www.homd.org/taxa/tax_description?otid=329 | USES | carbon dioxide | metabolite | HMDB0001967 https://hmdb.ca/metaboiltes.HMDB0001 | 967 n.la | ala - | prediction | Prediction based on the characteristics of Capacoprophaga genus. Data serviced from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Protocology, Vol. 3-5, Edn. 2nd. | nia | ala | S4 |
| Caprocytophaga sputgana | 775 https://www.homd.org/taxaitax_description?otid=775 | IN INVESTIGATION | ukygen nikite | matsholike | HMDR0007285 Mos Ibmgs wheetsbolies HMDR001 | 2017 ILA 286 eda | na cis | experimental penadimente | Laza network from review and not opinal research and con- | Bengey's statual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Remarks Manual of Systematic Periodology. Vol. 3-5, Edn. 2nd. | na 03 | nia. | 54 |
| Caprocytophaca souticena | 775 https://www.hond.org/taxa/tax_desoriation?visits775 | PRODUCES | pepides | metabolite | nia nia | nia | ela . | experimental | Data retrieved two reserves and not obtain lassanch a tricle. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd | nia | nia | 54 |
| Caprocytophaga sputigana | 775 https://www.homd.org/taxa/tax_description?otid=775 | USES | cation dioxide | metabolite | HMDB0001957 https://hmdb.ca/metabolites/HMDB0001 | 967 n.la | nia | experimental | Data natrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | S4 |
| Capnocytophaga sputigana | 775 https://www.homd.org/laxa/tax_description?otid=775 | USES | nitrate | metabolite | HMDB0002878 https://hmdb.ca/metabolitas/HMDB0002 | 878 nia | nia | experimental | Data natrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | S4 |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | DEGRADES | gelatine | metabolite | nia n/a | nia | ala | experimental | Data netrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | 7c |
| Corynebacterium matruchotii | 666 https://www.homd.org/taxa/tax_description?otid=666 | DESRADES | hydrogen peroxide | metabolite | HMDB0003125 https://hmdb.ca/metabolites/HMDB0003 | 125 n.la | nia | experimental | C. matruchotil enhanced the fitness of streptococci dependent on its ability to detoxify streptococcal-produced hydrogen peroxide and its ability to oxidize lactate also produced by streptococci. | Almeide2023 10.1125/msystems.00115-23 | rttps://pubmed.ncbi.nim.nih.gov/37610230 | nia | 7c |
| Connebecterium mateurhati | 666 https://www.homd.org/tava/tav. description/1464-666 | PRODUCES | akaline phosphatose | 6074/00 | nia nia | 3134 | https://www.genome.in/anto/3.1.3.4 | experimental | Data netrived from review and not noticeal assauch a network | Baroav's Manual of Systematic Barteviology Viol 3.5 Edn 2nd | 0ia | n/a | 70 |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | PRODUCES | biofilm scaffold | biofilm component | nia nia | nia | nia | experimental | Data natived from review and not original issearch article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nla | nia | 7c |
| Construction material - 1 | sector release band and and a start 323 | 100001077 | anthinga | 007070 | 60 60 | 1.11.40 | Mar forme announ inistant data d | une (mart | with the second se | Almostic 2022 10 1128/mountains 00115 22 | https://pubmed.ncbi.nlm.nih.gov/37610230 | ala / | 70 |
| Corynececie/ium matrichote | | -ADDOLES | CANADA | erzyme | 4 1/2 | 1.11.1.6 | maps.rmm.geronie.grentyr1.11.1.6 | -spennancal C | new rest control of the second se | Americanous no. 1128/15/Stells.00115-23 | 1 | | 10 |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | PRODUCES 610 | tyme degrading geletine | enzyme | nia n/a | nia | ala | experimental | Data natrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | 7c |
| Corynebacterium matruchoti | eee https://www.homd.org/taxa/tax_description?otid=666 | PRODUCES | menaquinone | metabolite | nia nia | nia | nia | experimental | Data retrived from review and not objinal instance article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | n/a | 70 |
| Connebacterium matrucholii Connebacterium matrucholii | eco mupurwww.homo.org/taxattax_description?otid=666 | PRODUCES | nitrae feducisise | enzyme | HMDR0007785 https://bmgb.co.iveet.shullaws.bit | 785 ela | na ch | experimental | Laza retrieve tion review and not oprime lessance ance. | Bengey's statual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Benney's Manual of Systematic Perturbations. Vol. 3 E. Eds. 3of | 02 | nia . | 70 |
| Connebacterium matruchoti | 666 https://www.homd.org/gavatav_devolution/related | PRODUCES | propionic acid | metahvila | HMDB000237 https://mdb.ca/matabulas.let/hbb0002 | 237 Ala | nia gla | experimental | Loas nerves con some ann non some ann non some hervest an non. Data nerves and non some ann non some hervest an non. | Bergey's Aleman of oysematic becamology, vol. 3-0, c00, 200. Bergey's Manual of Systematic Barteviology, Vol. 3-5, Eds. 204 | na | n/a | 70 |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | USES | dextrin | metabolite | HMDB0005857 https://hmdb.ca/metabolites/HMDB0006 | 857 n/a | nia | experimental | Fermentation. Data netwined from review and not object instance. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | 70 |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | USES | D-fructose | metabolite | HMDB0000660 https://hmdb.ca/metabolites/HMDB0000 | 960 nia | nia | experimental | Fermentation. Data retrieved from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | 7c |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | USES | D-glucose | metabolite | HMDB0000122 https://hmdb.ca/metabolites/HMDB0000 | 122 n/a | ain | experimental | Fermentation. Data notived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | an | nla | 7c |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | USES | D-maltose | metabolite | HMDB0000163 https://hmdb.ca/metabolitas/HMDB0000 | 163 n/a | nia | experimental | Fermentation. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | 7c |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | USES | D-mannose | metabolite | HMDB0000199 https://hmdb.ca/metabolites/HMDB0000 | 169 n/a | nia | experimental | Fermentation. Data netwised from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | 7c |
| Corynebacterium matruchotii | 666 https://www.homd.org/taxa/tax_description?otid=666 | USES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB0000 | 190 n.la | nia | experimental | C. matruchotil enhanced the fitness of streptococci dependent on its ability to detoxify streptococcal-produced hydrogen peroxide and its ability to oxidize lactate also produced by streptococci. | Almeide2023 10.1125/msystems.00115-23 | reps:/pubmea.ncoi.nm.nn.goi/37610230 | nia | 7c |
| Connebecterium mateurhati | 666 https://www.homd.org/tava/tav. description/1464-666 | USES | nitrate | metahvila | HMDB0002878 https://hmdh.ca/watahvilaes/HMDB0002 | 878 nia | pla | experimental | Data netrived from review and not noticeal assauch a network | Baroav's Manual of Systematic Barteviology Viol 3.5 Edn 2nd | 0ia | n/a | 70 |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | USES | raffinose | metabolite | HMDB0003213 https://hmdb.ca/metabolites/HMDB0003 | 213 n/a | nia | experimental | Formation Data withing for on review and not object instead. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | 70 |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | USES | salion | metabolite | HMDB0003546 https://hmdb.ca/metabolites/HMDB0003 | 546 n.la | nia | experimental | Fermentation. Data netrived from review and not original reasearch article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | 70 |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | USES | starch | metabolite | nia nia | nia | n/a | experimental | Fermentation. Data notived from neview and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla | 7c |
| Corynebacterium matruchoti | 666 https://www.homd.org/taxa/tax_description?otid=666 | USES | \$10034 | metabolite | HMDB0000258 https://hmdb.ca/metabolites/HMDB0000 | 258 n.la | ala | experimental | Fermentation. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | ala | 7c |
| Elkenalla corodens | 5/7 https://www.homd.org/taxa/tax_description?otid=577 | PRODUCES | nitric oxide | metabolite | HMUB0003378 https://hmdb.ca/metabolites/HMDB0003 | 5/8 n/a | nia | experimental | Data settings from review and not organize issance at action. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | din ch | ala . | S4 |
| Exerails coroters | 5// maps.rwww.homo.org/taxattax_description?otid=577 | PRODUCES | nice aniccentities | metabolite entrena | nia nia nia nia | 100 NA | na ch | experimental | Laza retrieve tion review and not oprimit Research ance. | Bengey's statual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bactery's Manual of Systematic Perturbations. Vol. 3 E. Eds. 3of | 02 | nia . | 94 |
| Elkenalla corodens | 577 https://www.homd.org/taxaitax_desor/prior/http:// | USES | cation dixide | metabolite | HMDB0001957 https://hmdb.ca/metabolites/HMDB0001 | ein 796 | ala ala | experimental | Data entrined from review and not original instance. | Bergey's Manual of Systematic Satisficiogy, vol. 3-0, con. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Evin 2nd | 08 | n/a | S4 |
| Elkenalla corodens | 577 https://www.homd.org/taxa/tax_description?otid=577 | USES | hemin | metabolite | HMDB0000887 https://hmdb.ca/metabolites/HMDB0000 | 887 nia | nia | experimental | Data natived from review and not original issearch article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nla | nia | S4 |
| Eikenalla corodens | 577 https://www.homd.org/taxa/tax_description?otid=577 | USES | nitrate | metabolite | HMDB0002878 https://hmdb.ca/metabolites/HMDB0002 | 878 nia | nia | experimental | Data natrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | n/a / | S4 |
| Elkenalla corodens | 577 https://www.homd.org/taxa/tax_description?otid=577 | USES | aftin | metabolite | HMDB0002785 https://hmdb.ca/metabolites/HMDB0002 | 786 nia | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | S4 |
| Eikenalla corodens | ETT Inter laws board contracting description/orbid=ETT | USES | 000000 | metabolite | HMDB0001377 https://hmdb.ca/metabolites/HMDB0001 | 377 nia | nia | experimental | Data natrived from review and not original assauch article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia | S4 |
| | 211 High Him Hone of galaxies of opportunity of | | uxygen | | | | | | Descholar based on the shareholder of Combasterian server. Data satisfies there are fast and ast adviced serversh satisfies | | | 0/2 | 0.4 |
| Fusobecterium sp. OTU_27 | nia nia | IS_INHERTED_BY | oxygen | metabolite | HMDB0001377 https://hmdb.ca/metabolites/HMDB0001 | 377 n.la | ain | prediction | Productor cases on the characteristics of Passbalantian gatas, base tentive interinetwater history gata restart at the | Bergey's Manual of Systematic Bactenology, Vol. 3-5, Edit. 2nd. | nia . | ala | 04 |
| Fusobacterium sp. OTU_27 Fusobacterium sp. OTU_27 Eurobacterium sp. OTU_27 | nia nia nia nia nia | IS_INHERTED_BY PRODUCES INFORMES | oxygen butyric acid | metabolite metabolite | HMDB0001377 https://hmdb.ca/metabolites.HMDB0001 HMDB0000339 https://hmdb.ca/metabolites.HMDB0000 UMDB0000322 https://hmdb.ca/metabolites.HMDB0000 | 377 nia 339 nia 725 n/2 | ain ain ain | prediction prediction | Prediction based on the characterized or reasonancem genus. Data received nor review and not optimal research atom. Prediction based on the characterized or Facebacterium genus. Data relatived from review and not optimal research atom. Devoticities have do the characterized of Eurobacterized mounts. Data relative manipulated at optimal data research atom. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia nia | ala ala | 54 54 |
| Fusobacterium sp. OTU_27 Fusobacterium sp. OTU_27 Fusobacterium sp. OTU_27 Fusobacterium sp. OTU_27 | 10 nb 10 nb 10 nb 10 nb 10 nb 10 nb | IS_INHEITED_BY PRODUCES PRODUCES PRODUCES | oxygen butyric acid hydrogen sulfide indole | metabolite metabolite metabolite metabolite | HMDB0001377 https://mdb.ca/metabolitas/HMDB0001 HMDB0000039 https://mdb.ca/metabolitas/HMDB0000 HMDB0003275 https://mdb.ca/metabolitas/HMDB0003 | 377 nia 139 nia 276 nia 738 nia | nia nia nia | prediction prediction prediction | Precision state on the diversitation of Precisional regions. Data stateful on theme control research and control a | Belgy's Manual of Systematic Bacteriology, vol. 3-a, E-bi. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-b, E-bi. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-b, E-bi. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-b, E-bi. 2nd. | nia nia nia nia | nia nia | 54 54 54 |

| Fusobecterium sp. OTU_27 | din din | uses L-lysine | metabolite HMDB000018 | https://hmdb.ca/metabolites/HMDB0000182 n/a n/a prediction | Prediction based on the characteristics of Fusobacterium genus. | Sakanaka2822 10.1128/msystems.00170-22 | https://pubmed.ncbi.nlm.nih.gov/35852319/ | nia S4 |
|--|---|---|---|---|--|---|---|---|
| Fusobacterium sp. OTU_27 Granulicatella adiacens | nia nia 534 https://www.homd.org/taxa/tax_description?otid=534 | USES Lomitine PRODUCES lactic acid | metabolite HMDB000021 metabolite HMDB000019 | titps:/hmdb.ca/metabolites/HMDB0000214 n.la nia prediction titps:/hmdb.ca/metabolites/HMDB0000190 n.la nia experimental | Prediction based on the characteristics of Fuscbacterium genus. Data retrived from review and not original research article. | Sakanaka2022 10.1128/msystems.00170-22 Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | https://pubmed.ncbi.nlm.nih.gov/35852319/ nila | nla S4 nla S4 |
| Granulicatella adiacens Granulicatella adiacens | 534 https://www.homd.org/taxa/tax_description?otid=534 534 https://www.homd.org/taxa/tax_description?otid=534 | USES L-cysteine USES pyldoxal | matabolite HMDB000057 matabolite HMDB000154 | tips:/hmdx.ca/metabolites/HMDB0000574 n.ia nia experimental experimental https:/hmdx.ca/metabolites/HMDB0001545 n.ia nia experimental | Data netrived from review and not original research article. Data netrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia nia | nia S4 nia S4 |
| Haemophilus parainfluenzae Haemophilus narainfluenzae | 718 https://www.homd.org/taxa/tax_description?otid=718 718 https://www.homd.org/taxa/tax_description?otid=718 | PRODUCES Catalase PRODUCES office | enzyme nia mataholite HMDE000278 | nia 1.11.1.6 https://www.garone.jpientry/1.11.1.6 experimental | Data ratived from review and not original research article. Variable. | Bergey's Manual of Systematic Bacteriology, Vol. 3.5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3.5, Edn. 2nd. | a'n a'n | nia S4 |
| Haemophilus parainfluenzae | 718 https://www.homd.org/taxa/tax_description?otid=718 | PRODUCES UPgase | enzyme nia | n/a 3.5.1.5 https://www.genome.jp/entry/3.5.1.5 experimental | Data retried from series and not original research article. Variable. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | na | nia S4 |
| Haemophius parainfluenzae | 716 https://www.homd.org/taxa/tax_description?otid=718 718 https://www.homd.org/taxa/tax_description?otid=718 | USES nitrate | matabolite HMDB000287 | https://mdb.ca/matabolias/MICB0000134 na na na epermena https://mdb.ca/matabolias/MICB0000278 n/a n/a epermena | Data retrive tom review and red organia research andres. Data retrive tom review and not original research article. | Bergey's inamual of opsamatic backwindogy, vol. 3-6, Eur. 2nd. Bergey's Manual of Systematic Backwindogy, Vol. 3-5, Edit. 2nd. | na na | nia 54 nia 54 |
| Haemophius parainfluenzae | 718 https://www.homd.org/taxa/tax_description?otid=718 718 https://www.homd.org/taxa/tax_description?otid=718 | uses V-factor | metabolite nila | r/a r/a r/a r/a experimental | Data retrived from review and red original subsection and the | Bergey's issense of Systematic Bacteriology, Vol. 3-6, Edit 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-6, Edit 2nd. | na | niu 34 niu 54 |
| Kingelia oralis | 706 https://www.homd.org/taxa/tax_description?otid=706 706 https://www.homd.org/taxa/tax_description?otid=706 | USES Carbon dioxide | metabolite HMDB000196 | https://mdb.ca/metabolites/HMDB0001967 n/a n/a n/a prediction | Laaa netwee toon review and not original seaacch article. Prediction based on the characteristics of Kingella genus. Data retrived from review and not original research article. | Bergey's Manual of systematic Bacteriology, Vol. 3-6, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-6, Edn. 2nd. | na na | n/a 54 n/a 54 |
| Kingalla oralis Kingalla oralis | 706 https://www.homd.org/taxa/tax_description?otid=706 706 https://www.homd.org/taxa/tax_description?otid=706 | USES nitrite USES oxygen | matabolite HMDB000278 matabolite HMDB000137 | 5 https://hmdb.ca/metabolitas:HMDB0002785 n/a n/a experimental 7 https://hmdb.ca/metabolitas:HMDB0001377 n/a n/a experimental | Data retrived from review and not original research article. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | a'n a'n | nia S4 nia S4 |
| Lactobacillus sp. OTU_19 Lactobacillus sp. OTU_19 | ala ala ala ala | IS_INHEITED_EV oxygen PRODUCES lactic acid | metabolite HMDB000137 metabolite HMDB000019 | Pittps:/hmdb.ca/metabolites/HMD80001377 n.la nia prediction Distps:/hmdb.ca/metabolites/HMD80000190 n.la nia prediction | Prediction based on the characteristics of related L. paracesei. Data retrived from review and not original research article. Prediction based on the characteristics of related L. paracesei. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia nia | nia S4 nia S4 |
| Lactobacillus sp. OTU_19 Lactobacillus sp. OTU_19 | da da da | USES carbon dioxide | matabolite HMDB000196 matabolite HMDB000137 | https://hmdb.ca/metabolites/HMDB0001957 n.ia nia nia prediction | Prediction based on the characteristics of related L. paracasel. Data retrived from review and not original research article. Prediction based on the characteristics of related L. paracasel. Data retrived from review and not crisinal research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia nia | nia S4 nia S4 |
| Ladobacilus sp. OTU_6 Ladobacilus sp. OTU_6 | da da | IS_INHEITED_EV Oxygen PRODUCES ammonia | metabolite HMDB000137 metabolite HMDB000005 | https://hmdb.ca/metabolites/HMDB0001377 n.ia n/a prediction | Prediction based on the characteristics of related L pentous. Data retrived from review and not original research article. Variable Rediction based on the characteristics of related L pentous. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3.5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3.5, Edn. 2nd. | a'n a'n | nia S4 |
| Lactobacilus sp. OTU_6 Lactobacilus sp. OTU_6 | ala ala | PRODUCES catechol | matabolite nila matabolite HMDR000019 | nia nia nia predicion | Prediction based on the characteristics of related L pentosus. Data retrived from review and not original research article. Prediction based on the characteristics of related L pentosus. Data retrived from review and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia nia | nia S4 ola S4 |
| Lactobacilus sp. OTU_6 Lactobacilus sp. OTU_6 | da da | uses carbon dioxide | metabolite HMDB000196 metabolite HMDB000019 | https://mdb.ca/metabolites/HMD80001957 n.ia n/a prediction | Prediction based on the characteristics of related L pentosus. Data netrived from review and not original research article. Restriction based on the characteristics of related L1 pentosus. Data netrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3.5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3.5, Edn. 2nd. | a'n a'n | nia S4 |
| Lactobacillus sp. OTU_6 | ala ala | uses nitre | metabolite HMDB000278 | https://https://www.executive/actions/acti | Prediction based on the characteristics of related L perforus. Data retrived from review and not original research article. Variable Recipitors based on the characteristics of related L acaterum. Data retrived from review and not original research article. Variable | Bengey's Manual of Systematic Bacteriology, Vol. 3.5, Edn. 2nd. Bengey's Manual of Systematic Bacteriology, Vol. 3.5, Edn. 2nd. | nia | n/a 54 |
| Lactobacillus sp. OTU_6 | nia nia | USES shikinic acid | matabolite HMDB000307 | https://mdb.ca/metabolitas/HMD50000707 n.lk n/k production | Productor based on the characteristics of related L. particular. Sour relative from relative and not original research article. Variable Productor based on the characteristics of the same of the characteristics of the characteristics of the same of the characteristics of the characteristics of the same of the characteristics of the same of the characteristics of t | Bergey's Manual of Systematic Bacteriology, Vol. 35, Eds. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 35, Eds. 2nd. | na | nia S4 |
| Lancefieldella panvulae | 723 https://www.homd.org/taxa/tax_description?otid=723 | PRODUCES lactic acid | matabolite HMDB000019 | https://mdb.ca/metabolites/HMDB0000190 n/a n/a experimental | Data ratified from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | na | nia S4 |
| Lancefieldella rimae | 750 https://www.homd.org/taxa/tax_description?otid=750 750 https://www.homd.org/taxa/tax_description?otid=750 | PRODUCES lactic acid | metabolite HMDB000019 | reps.mindo.cametabolites.HMDB000013/7 na na na experimenta https://mdb.ca/metabolites.HMDB0000190 n.la nia experimental | Data retrived from review and not original research ance. | Bergey's issense of Systematic Bacteriology, Vol. 3-6, Edit 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-6, Edit 2nd. | na | niu 04 niu 84 |
| Lautropia mirabilis | 22 https://www.homd.org/taxa-tax_description?otid=022 22 https://www.homd.org/taxa-tax_description?otid=022 | PRODUCES Bydrogen perceide | matabolite nia | nta nia esperimenta nia nia nia esperimenta | | GemerSmidt1994 10.1099/13500872-140-7-1787 GemerSmidt1994 10.1099/13500872-140-7-1787 | https://pubmed.ncbi.nlm.nih.gov/8075812/ https://pubmed.ncbi.nlm.nih.gov/8075812/ | nia /c nia /c |
| Lautropia mirabilis | 22 https://www.homd.org/taxa-tax_description?otid=022 22 https://www.homd.org/taxa-tax_description?otid=022 | PRODUCES ammonia PRODUCES bela-xylosidase | enzyme nia | https://midb.cametabores.HMUB0000051 na na na experimenta n/a 32.121 https://www.genome.jpientry/3.2.121 experimental | | GemerSmidt1994 10.1099/13500872-140-7-1787 GemerSmidt1994 10.1099/13500872-140-7-1787 | https://pubmed.ncbi.nlm.nih.gov/8075812/ | nia /c nia /c |
| Lautropia mirabilis Lautropia mirabilis | 22 https://www.homd.org/taxa/tax_description?otid=022 22 https://www.homd.org/taxa/tax_description?otid=022 | PRODUCES Capsule PRODUCES Catalose | enzyme nia | nia nia experimental nia 1.11.1.6 https://www.genome.jpientsyl1.11.1.6 experimental | Weakly catalase positive. | GemefSmidt1994 10.1099/13500872-140-7-1787 GemefSmidt1994 10.1099/13500872-140-7-1787 | https://pubmed.ncbi.nlm.nih.gov/8075812/ https://pubmed.ncbi.nlm.nih.gov/8075812/ | nia 7c nia 7c |
| Lautropia mirabilis Lautropia mirabilis | 22 https://www.homd.org/taxa/tax_description?otid=022 22 https://www.homd.org/taxa/tax_description?otid=022 | PRODUCES cell aggregates PRODUCES enzyme generating polysacharide from s | biofilm component nila ucorse enzyme nila | nia ala ala ala ala ala ala ala ala ala a | Often occurring in clusters of 10 to 100 cells. | GemerSmidt1994 10.1099/13500872-140-7-1787 GemerSmidt1994 10.1099/13500872-140-7-1787 | https://pubmed.ncbi.nlm.nih.gov/8075812/ https://pubmed.ncbi.nlm.nih.gov/8075812/ | nia 7c nia 7c |
| Lautropia mirabilis Lautropia mirabilis | 22 https://www.homd.org/taxa/tax_description?otid=022 22 https://www.homd.org/taxa/tax_description?otid=022 | PRODUCES flagella PRODUCES nitrate reductase | cell component nia enzyme nia | nia nia ain ain ain ain ain ain ain ain | | GemerSmidt1994 10.1099/13500872-140-7-1787 GemerSmidt1994 10.1099/13500872-140-7-1787 | https://pubmed.ncbi.nim.nih.gov/8075812/ https://pubmed.ncbi.nim.nih.gov/8075812/ | nia 7c nia 7c |
| Lautropia mirabilis Lautropia mirabilis | 22 https://www.homd.org/taxa/tax_description?otid=022 22 https://www.homd.org/taxa/tax_description?otid=022 | PRCOUCES nibite PRCOUCES nibite | metabolite HMDB000278 enzyme nia | Shtps://hmdb.ca/metabolites/HMDB0002785 n/a n/a experimental experimental n/a n/a experimental | | GemerSmidt1994 10.1099/13500872-140-7-1787 GemerSmidt1994 10.1099/13500872-140-7-1787 | https://pubmed.ncbi.nlm.nih.gov/8075812/ https://pubmed.ncbi.nlm.nih.gov/8075812/ | nia 7c nia 7c |
| Lautropia mirabilis Lautropia mirabilis | 22 https://www.homd.org/taxa/tax_description?otid=022 22 https://www.homd.org/taxa/tax_description?otid=022 | PRODUCES Oxidase PRODUCES polysacharida | enzyme nila biofilm component nila | tia nia ana ala ta ana ala ana ana ana ana ana ana ana an | | GemerSmid11994 10.1099/13500872-140-7-1787 GemerSmid11994 10.1099/13500872-140-7-1787 | https://pubmed.ncbi.nlm.nih.gov/8075812/ https://pubmed.ncbi.nlm.nih.gov/8075812/ | nia 7c nia 7c |
| Lautropia mirabilis Lautropia mirabilis | 22 https://www.homd.org/taxa/tax_description?otid=022 22 https://www.homd.org/taxa/tax_description?otid=022 | PRODUCES unlease USES D-fructose | enzyme nia metabolite HMDB000066 | n/a 3.5.1.5 https://www.genome.jplentry(3.5.1.5 experimental https://hmdb.ca/metabolites/HMDB0000660 n/a n/a kiperimental | Fernantation. | GernerSmidt1994 10.1099/13500872-140-7-1787 GernerSmidt1994 10.1099/13500872-140-7-1787 | https://pubmed.ncbi.nlm.nih.gov/8075812/ https://pubmed.ncbi.nlm.nih.gov/8075812/ | nia 7c nia 7c |
| Lautropia mirabilis Lautropia mirabilis | 22 https://www.homd.org/taxa/tax_description?otid=022 22 https://www.homd.org/taxa/tax_description?vtid=022 | uses D-galaciose uses D-ducose | metabolite HMDB000014 metabolite HMDB000014 | tips:/hmdb.ca/metabolites.HMDB0000143 nia nia nia experimental https:/hmdb.ca/metabolites.HMDB0000122 nia nia experimental | Fermination. Fermination. | GernerSmidt1994 10.1099/13500872-140-7-1787 GernerSmidt1994 10.1099/13500872-140-7-1787 | https://pubmed.ncbi.nlm.nih.gov/8075812/ https://pubmed.ncbi.nlm.nih.gov/8075812/ | nia 7c nia 7c |
| Lautropia mirabilis Lautropia mirabilis | 22 https://www.homd.org/taxa/tax_description?otid=022 22 https://www.homd.org/taxa/tax_description?otid=022 | uses D-maltise | metabolite HMDB000016 metabolite nia | https://hmdb.ca/metabolites.HMDB0000163 n/a n/a experimental | Fernantiation. Generally senantial as a factificus, menanisms which non he hard to noticus in vitro. | GemerSmid:1994 10.1099/13500872-140-7-1787 GemerSmid:1994 10.1099/13500872-140-7-1787 | https://pubmed.ncbi.nlm.nih.gov/8075812/ https://pubmed.ncbi.nlm.nih.gov/8075812/ | nia 7c |
| Lautropia minabilis | 22 https://www.homd.org/taxa/tax_description?otid=022 | USES manitol | matabolite HMDB000076 | Shtps://hmdb.ca/matabolies/HMD80000765 n.ia nia experimental | Generally regulated an instantion of general when the or and the rest of called in the contrast of the contras | General Start 1994 10: 1999 11:500072-140-71767 General 1994 10: 0209113500872-140-71787 | https://pubmed.ncbi.nim.nih.gov/8075812/ | nia 70 |
| Lautropia minabilis | 22 https://www.homd.org/taxa-tax_description?otid=022 22 https://www.homd.org/taxa-tax_description?otid=022 | USES nitite | metabolite HMDB000278 | Ings. Initial carries and a second se | | GemerSmid:1994 10.1029/1300672-140-7-1787 GemerSmid:1994 10.1029/13500872-140-7-1787 | https://pubmed.ncbi.nim.nih.gov/8075812/ | nia 7c |
| Lautropia minabilis | 22 https://www.homd.org/taxa-tax_description?otid=022 22 https://www.homd.org/taxa-tax_description?otid=022 | USES SUCISA | metabolite HMDB000125 | Ings. Initial carried bills. HMDB0000258 n.la nia experimental experimental | corows base oncer sensore containors. | GemerSmid:1994 10.1029/1300672-140-7-1787 GemerSmid:1994 10.1029/13500872-140-7-1787 | https://pubmed.ncbi.nim.nih.gov/8075812/ | nia 7c |
| Linosilactobacilus fementum | 22 https://www.homd.org/taxa-tax_description?otid=022 608 https://www.homd.org/taxa-tax_description?otid=608 | IS_INHEITED_EV Coxygen | metabolite HMDB000123 metabolite HMDB000137 | rtps.rhmdb.ca/metabolites.HMUB0000294 nia nia esperimenta https:/hmdb.ca/metabolites.HMUB0001377 nia nia nia esperimenta | Data retrived from review and not original research article. | Gernersmed 1994 10. 1999 1 35008 / 2-140 / 1/18/ Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nik | nia /c nia S4 |
| Linosiactobacilus fermentum Linosiactobacilus fermentum | 608 https://www.homd.org/taxa/tax_description?otid=608 608 https://www.homd.org/taxa/tax_description?otid=608 | USES carbon dixide | metabolite HMDB000196 | https://mdb.ca/metabolites/HMDB000190 n.a. n/a n/a experimenta https://mdb.ca/metabolites/HMDB0001997 n.la n/a experimental | Lata network trom review and not organal relatant network. Data network from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. | na nia | n/a 54 n/a 54 |
| Linosiactobacilus fermentum | 608 https://www.homd.org/taxa-tax_description?otid=608 608 https://www.homd.org/taxa-tax_description?otid=608 | USES Largnine USES oxygen | metabolite HMDB000137 | https://midb.ca/metabolites/HMD8000517 nia nia experimental experimental | Lata served trom review and not diginal relation index. Data retrived from review and not diginal research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | na na | n/a 84 n/a 84 |
| Linoslactobacilus fementum | 608 https://www.homd.org/taxa-tax_description?otid=608 608 https://www.homd.org/taxa-tax_description?otid=608 | uses partotheric and uses thiamine | metabolite HMDB000023 | https://mdb.ca/metabolites/HMDB0000210 n.ia nia nia esperimenta https://mdb.ca/metabolites/HMDB0000235 n.ia nia esperimental | Lusa veryve tron revew and not organa research ance. Data retrived from review and not organa research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. | na na | nia S4 |
| Mogibacterium sp. 010_21 Mogibacterium sp. 010_21 | ala ala | PRODUCES phenylacetic acid | metabolite HMDB000120 | https://https/ | Prediction based on the characteristics of neighborstein genus. Data network for review and not organize research and/o. Prediction based on the characteristics of Neighborstein genus. Data network from review and not original research and/o. | Bergey's warrae of Systematic Bacteriology, Vol. 3-6, Edit 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-6, Edit 2nd. | na | niu 34 niu 54 |
| Nesseria sicca Neisseria sicca | 764 https://www.homd.org/taxa/tax_description?otid=764 764 https://www.homd.org/taxa/tax_description?otid=764 | PRODUCES Catalase PRODUCES nitic oxide | enzyme nia metabolite HMDB000337 | tos:/hmb.ca/metabolitas/HMDB0003378 nia nia nia experimenta | Lusa veryve tron revew and not organa research ance. Data retrived from review and not organal research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. | na na | nia S4 |
| Neisseria sicca | 764 https://www.homd.org/taxa/tax_description?otid=764 764 https://www.homd.org/taxa/tax_description?otid=764 | uses name | metabolite HMDB000137 | rtps.inndb.ca/metabolitas/HUB0002/86 Fila Fila Fila Experimenta Trtps.ihndb.ca/metabolitas/HUB0001377 n.la Fila Experimental Experimental | Lusa very vert tron revew and not organa research ance. Data retrived from review and not organal research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. | na na | nia S4 |
| Neisseria sp. 010_4 Neisseria sp. 010_4 | nia nia nia nia | PRODUCES Catalase PRODUCES nitric oxide | enzyme nia metabolite HMDB000337 | r/a 1.11.1.6 https://www.garona.giverty/1.11.1.6 pradction https://mdb.ca/metabolitas/HMDB0003378 nia nia pradction | Heldeline based on the characteristics of related N. mucosalsicsa Prediction based on the characteristics of related N. mucosalsicsa | Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. | na na | nia S4 |
| Neissena sp. OTU_4 Neisseria sp. OTU_4 | ala ala ala ala | USES nitre | metabolite HMDB000287 | rtps.ihmdb.ca/metabolites.HMIDB0002878 nia nia piedocho p | Prediction based on the characteristics of neinted N. Hustopasticca Prediction based on the characteristics of related N. Hustopasticca | Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. | na na | n/a 54 n/a 54 |
| Neisseria sp. 010_4 Neisseria sp. 010_4 | nia nia nia nia | uses name | metabolite HMDB000137 | rtps.inmdb.ca/metabolitasHMUB0002/86 fria fria prédiction htps.ihmdb.ca/metabolitasHMUB0001377 n.ia nia nia prédiction | Prediction based on the characteristics of neited N. muccularisco Prediction based on the characteristics of related N. muccularistica | Bergey's Manual of Systematic Bacteriology, Vol. 3-b, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | na nia | nia 54 nia 54 |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=279 | IS_INHEITED_EV hydrogen peroxide IS_INHEITED_EV oxygen | matabolite HMDB000312 matabolite HMDB000137 | https:/hmdb.ca/metabolites.HMDB0003125 n.ia n/a experimental 7.https:/hmdb.ca/metabolites.HMDB0001377 n.ia n/a prediction | Cells reported as obligately anaerobic. Aerobic respiration and microaerophilic growth potentially possible - prediction based on the characteristics of related P, gingivalis species. | Sakamoto2015 10.1099/ijs.0.000294 Sakamoto2015 10.1099/ijs.0.000294 | https://pubmed.ncbi.nlm.nih.gov/25933621/ https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c nia 7c |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=279 | PRODUCES acid phosphatase PRODUCES alarine arylamidase | enzyme nia enzyme nia | n/a 3132 https://www.genome.jplentry/3132 experimental n/a 34.11.14 https://www.genome.jplentry/34.11.14 experimental | Positive reactions were obtained using API 21M. Positive reactions were obtained using Regid ID 32A. | Sakamoto2015 10.1099/ljs.0.000294 Sakamoto2015 10.1099/ljs.0.000294 | https://pubmed.ncbi.nlm.nih.gov/25933621/ https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c nia 7c |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=279 | PRODUCES alkaline phosphatase PRODUCES alpha-facosidase | enzyme nia enzyme nia | n/a 31.3.1 https://www.genome.jplentry/3.1.3.1 experimental n/a 32.1.51 https://www.genome.jplentry/3.2.1.51 experimental | Positive reactions were obtained using Rapid ID 30A and API ZYM. Positive reactions were obtained using Rapid ID 30A and API ZYM. | Sakamoto2015 10.1099/ljs.0.000294 Sakamoto2015 10.1099/ljs.0.000294 | https://pubmed.ncbi.nlm.nih.gov/25933621/ https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c nia 7c |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=279 | PRODUCES alpha-glucosidase PRODUCES beta-galactosidase | enzyme nia enzyme nia | nla 32.120 https://www.gerome.jpikritry/32.120 experimental nla 32.123 https://www.gerome.jpikritry/32.123 experimental | Positive reactions were obtained using Rept ID 32A and API 2/11 (weak). Positive reactions were obtained using Rept ID 32A and API 2/11 (weak). | Sakamoto2015 10.1099/jp.0.000294 Sakamoto2015 10.1099/jp.0.000294 | https://pubmed.ncbi.nlm.nih.gov/25933621/ https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c nia 7c |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=279 | PRODUCES enzyme generating glutamate from am PRODUCES enzyme generating vitamin B12 from (proto | nonia enzyme nia porphyrin enzyme nia | lattembeges ain ain ain lattembeges ain ain ain | | OFlynn2015 10.1093(gbalew/220 OFlynn2015 10.1093(gbalew/220 | https://pubmed.ncbi.nlm.nih.gov/26568374/ https://pubmed.ncbi.nlm.nih.gov/26568374/ | nia 7c nia 7c |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=279 | PRCCUCES esterase PRCCUCES glutarryl glutarric acid arylarridas | enzyme nia enzyme nia | nia nia nia experimental experimental nia experimental | Positive reactions were obtained using API ZYM. Weak. Positive reactions were obtained using Rapid ID 32A. | Sakamoto2015 10.1099/ljp.0.000294 Sakamoto2015 10.1099/ljp.0.000294 | https://pubmed.ncbi.nlm.nih.gov/25933621/ https://pubmed.ncbi.nlm.nih.gov/25933621/ | nla 7c nla 7c |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=279 | PRCCUCES leucine arylamidase PRCCUCES leucyl glycine arylamidase | enzyme nia enzyme nia | nia in ain ain ain ain ain ain ain ain a | Positive reactions were obtained using API ZYM. Weak. Positive reactions were obtained using Rapid ID 32A. | Sakamoto2015 10.1099/ijs.0.000294 Sakamoto2015 10.1099/ijs.0.000294 | https://pubmed.ncbi.nlm.nih.gov/25933621/ https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c nia 7c |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=279 | PRCOUCES N-acetyl-beta-glucosaminidase PRCOUCES naphthol AS-Bi-phosphohydrolas | enzyme nia enzyme nia | nia 3.2.152 https://www.genome.jpiontry/3.2.152 experimental nia nia nia nia experimental | Positive reactions were obtained using Repid ID 33A and API 2YM. Positive mactions were obtained using API 2YM. | Sakamoto2015 10.1099/ijs.0.000294 Sakamoto2015 10.1099/ijs.0.000294 | https://pubmed.ncbi.nlm.nih.gov/25933621/ https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c nia 7c |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=279 | PRODUCES propionic acid USES (proto)porphyrin | metabolite HMDB0000223 metabolite nia | htps:/hmdb.ca/metabolites.HMDB0000237 nia nia nia espanimental nia nia nia espanimental | | Sakamoto2015 10.1099/§s.0.000294 Sakamoto2015 10.1099/§s.0.000294 | https://pubmed.ncbi.nlm.nih.gov/25933621/ https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c nia 7c |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=279 | uses alpha-lactose | metabolite HMDB000018 metabolite HMDB000018 | https://hmdb.ca/metabolitesHMDB0000195 nia nia nia experimental https://hmdb.ca/metabolitesHMDB0000122 nia nia experimental | | Sakamoto2015 10 1099/js 0.000294 Sakamoto2015 10 1099/js 0.000294 | https://pubmed.ncbi.nlm.nih.gov/25933621/ https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c |
| Porphyromonas pasteri Porphyromonas nasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 279 https://www.homd.org/taxa/tax_description?otid=278 | USES DHNA USES Duratinee | metabolite HMDB024421 metabolite HMDB024421 | 2 https://hmdb.ca/metabolites.HMDB0244212 n/a n/a experimental https://hmdb.ca/metabolites.HMDB020453 n/a n/a experimental | | Sakamoto2015 10.1099/ja.0.000294 Sakampti-0115 10.1099/ja.0.000294 | https://pubmed.ncbi.nlm.nih.gov/25933621/ https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c |
| Porphyromonas pasteri Porphyromonas pasteri | 279 https://www.homd.org/tana/tax_description?otid=279 | USES D-mannose | metabolite HMDB000019 | https://mdb.ca/metabolites/HMDB0000199 n/a n/a experimental | Description consistent or scherbelaux annulation alsolutions hallowed to column is using | Sakamoto2015 10.1093/jp.0.00224 | https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c |
| Pophyromonas pasteri Pophyromonas pasteri | 279 https://www.homo.org/tana/tax_description?otid=279 279 https://www.homd.org/tana/tax_description?otid=279 | uses herin | metabolite HMDB000088 | https://mdb.ca/metabolites.HMDB0000387 n/a n/a experimental | Generativy regarises as a saccess arguments which can be need to cause in view. Added herein, blood, or hemoglobin fulfiled the here requirement for growth. The here requirement results from an incomplete heree biosynthetic pethway in P. pasteri. | Murugika/2022 10.1080/202297.202297.40511 Subarantee 216.1080/202297.202297.4051 | https://pubmed.ncbi.nim.nih.gov/36452178/ | nia 70 |
| Pophyromonas pasteri Pophyromonas pasteri | 279 https://www.homd.org/tana/tax_description?otid=279 279 https://www.homd.org/tana/tax_description?otid=279 278 https://www.homd.org/tana/tax_description?otid=279 | uses lactic acid | metabolite HMDB0000119 | https://hmdb.ca/metabolites/HMDB0000190 n.la n/a prediction | Prediction based on the characteristics of related P, singleals species. | Lawis2009 10.1095/mj.0.002393-0 | https://pubmed.ncbi.nlm.nih.gov/19684063/ | nia 70 |
| Pophytomonas pasteri Pophytomonas pasteri | 279 https://www.homd.org/taxa/tax_description?otid=279 286 https://www.homd.org/taxa/tax_description?otid=279 | USES SUCIOSE | metabolite HMDB000225 | the maximum provides HMD80000258 nla nla experimental the nla experimental the nla experimental | - Permetal and an end of the second s | Barney's Manual (1), 1000420024297-20224-2143001 Sakamoto2015 00, 100936, 0, 000234 Barney's Manual (1) Systematic Barney's Manual (1) 3 C. Edu (1) 4 | https://pubmed.ncbi.nlm.nih.gov/25933621/ | nia 7c |
| Prevotella histicola | 296 https://www.homd.org/taxa/tax_description?otid=298 | USES herrin | metabolite HMDB000032 | https://hmdb.ca/metabolites/HMDE0000387 n/a n/a prediction | Predicate states on the communication on revealed ways to be intervention on the state of t | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Eds. 201. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Eds. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-7, Eds. 2nd. | an da | nia S4 |
| Prevotella nancelensis Prevotella nancelensis | and angentive norte orginalizatax_description/olid=299 | PRODUCES lactic acid | metabolite HMDB000137 matabolite HMDB000119 | ha prediction na fia prediction | President select on the characteristics or mercease genesi. Usas retrived from review and not deprint research ance. Data retrived from review and not deprint insearch article. | bergey's warraw or systematic bacteriology, Vol. 3-5, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. Descende Meess of P. | na na | nia S4 |
| Prevotella nancelensis Prevotella salivae | 239 https://www.homd.org/taxa/tax_description/otd=299 | 1875 | match 12 | The second | to see the second se | the second s | | n/a 54 |
| | 299 https://www.hond.org/taxatax_description?ndid=299 https://www.hond.org/taxatax_description?ndid=299 307 https://www.hond.org/taxatax_description?ndid=307 | USES hernin Is jeventto, py coxypen | metabolite HMDB000088 metabolite HMDB000137 | Phtps://hmdb.ca/metabolitas/HMD80000887 n/a prediction https://hmdb.ca/metabolitas/HMD80001977 n/a n/a experimental | Precision saved on the characteristics of Previous games, save retrieve room review and no original research ance. Data retrieved from review and not original research article. | Bergey's warrae of Systematic Bacteriology, Vol. 3-5, Edit 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edit 2nd. | nia | nia S4 |
| Prevotella salivae Rothia dentocariosa | 299 http://www.homd.org/taxa/tax_description?ddf=299 296 http://www.homd.org/taxa/tax_description?ddf=299 307 https://www.homd.org/taxa/tax_description?ddf=307 307 https://www.homd.org/taxa/tax_description?ddf=307 587 https://www.homd.org/taxa/tax_description?ddf=587 | USS henin Is, Investo, EV coypen USS henin Is, Investo, EV hydrogen perceide | metabolita HMDB000388 metabolita HMDB000137 metabolita HMDB000388 metabolita HMDB000312 | PppL/Index.calmetabolise.MMD000087 nik nik nik psdcion tdps./Indo.calmetabolise.MMD000087 nik nik experimental https:/Indo.calmetabolise.MMD000087 nik nik experimental https:/Indo.calmetabolise.MMD00003725 nik nik experimental | Precision rever the consultations of Preference genes durat interference into the dark the ingene mesone interva Dea interference intervention of the consultation of | Bergey's Martuel of Systematic Bacteriology, Vol. 34, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 35, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 35, Edn. 2nd. Bergey's Manual of Systematic Bacteriology, Vol. 35, Edn. 2nd. | nia nia nia | nia S4 nia S4 nia S4 |
| Prevotella salivae Rothia dentocariosa Rothia dentocariosa Rothia dentocariosa | 29 TBp: Inver And objastate, 3600pt0n/060249 39 TBp: Inver And objastate, 3600pt0n/060249 300 TBp: Inver And objastate, 3600pt0n/060249 307 TBp: Inver And objastate, 3600pt0n/0604937 305 | UES hennin (5, Iwaanto, IV oxygen UES hennin (6, Iwaanto, IV hydrogen pactode PROCUCS cataloase PROCUCS lactic add | metabolite HMDB00038 metabolite HMDB000137 metabolite HMDB000312 metabolite HMDB000312 erzyme nia metabolite HMDB000019 | Type://mic.aniesables/H40000087 na na produce Type://mic.aniesables/H40000077 na na produce Type://mic.aniesables/H40000078 na na produce Type://mic.aniesables/H4000078 na na produce Type://mic.aniesables/H4000078 na na produce Type://mic.aniesables/H4000078 na na produce | President search and the constantiation of Presidence gives can and any one provide motion of the Data of balance from and and of program can balance and of organization can be and one provide mount which Predictor based on the classifications of President provide search and and any provide search and the Data strateging from the organization of the classification of the Classification of the Data strateging from the organization of the classification of | Berger Natural or Spontentia, Backwardsyn, Will 3,4 Etch. And Berger Natural of Spontentia Backwardsyn, Wil 3,4 Etch. And Berger Natural of Spontentia Backwardsyn, Wil 3,4 Etch. And Berger Natural of Spontentia Backwardsyn, Wil 3,4 Etch. And | nia nia nia nia nia | nia S4 nia S4 nia S4 nia S4 nia S4 |
| Prevotella sativae Rothia dentocariosa Rothia dentocariosa Rothia dentocariosa Rothia dentocariosa | (26) Tig1, I were hold of gladalat, Skopplon Red-29 9) Tig5, I were hold of gladalat, Skopplon Red-29 90 Tig5, I were hold of gladalat, Skopplon Red-29 90 Tig5, I were hold of gladalat, Skopplon Red-39 17 Tig5, I were hold of gladalat, Skopplon Red-39 17 Tig5, I were hold of gladalat, Skopplon Red-39 17 Tig5, I were hold of gladalat, Skopplon Red-39 187 Tig5, I were hold of gladalat, Skopplon Red-39 17 Tig5, I were hold of gladalat, Skopplon Red-39 18 Tig5, I were hold of gladalat, Skoppl | USS henin 5. jweatto, pr USS henin 15. jweatto, pr 16. jweatto, pr 19. juncture 19. | metabolia HMDB00038 metabolia HMDB00037 metabolia HMDB00037 erzyme na metabolia HMDB00012 metabolia HMDB00017 metabolia Na | No. The canonical analogous ALCCOCOMP ratio pactors No. Standowski ALCCOCOMP ratio pactors pactors No. Standowski ALCCOCOMP ratio ratio pactors No. Standowski ALCCOCOMP ratio ratio pactors | An and a set of the set of t | Bergey Yang, and Spanner, Euroradyn, vo. 3, 5, 6, 7, al. Bergey Yang, and Spanner, Euroradyn, vo. 3, 5, 6, 7, al. Bergey Yang, and Spanner, Euroradyn, vo. 3, 5, 6, 7, al. Bergey Yang, and Spanner, Euroradyn, vo. 3, 5, 6, 7, al. Bergey Yang, and Spanner, Euroradyn, vo. 3, 5, 6, 7, al. Bergey Yang, and Spanner, Euroradyn, vo. 3, 5, 6, 7, al. Bergey Yang, and Spanner, Euroradyn, vo. 3, 5, 6, 7, al. Bergey Yang, and Spanner, Euroradyn, vo. 3, 5, 6, 7, al. Bergey Yang, and Spanner, Euroradyn, vo. 3, 5, 6, 7, al. | nia nia nia nia nia nia nia nia | nia S4 nia S4 nia S4 nia S4 nia S4 nia S4 nia S4 nia S4 |
| Prevetila salivae Rothia dentocariosa Rothia dentocariosa Rothia dentocariosa Rothia dentocariosa Rothia dentocariosa Rothia dentocariosa Rothia dentocariosa | (26) Tight I was hold of glad alk. Second (10):000-000 (27) Tight I was hold (20) take I was hold (20) tak | USE Nemin USE Oxygen USE Namin USE Namin VARISTE, JP Ngloga parolsk VROUCSS Calabia VROUCSS Calabia VROUCSS Namin VROUCS Namin VROUCS Namin VROUCS Namin VROUCS Namin VROUCS Namin VROUCS Namin | evatabolia HADB00038 matabolia HADB00038 matabolia HADB00038 matabolia HADB00038 evatabolia HADB00039 matabolia HADB00037 evatabolia HADB00037 matabolia HADB00037 | Tag, India, annualizada and and pedida Jan, San, San, San, San, San, San, San, S | Predictor based on terms to be and terms from tables and or deright an establishes Predictor based on terms from tables and or deright an establishes Predictor based on terms and terms and an establishes Dea establishes in Predictor based on the Version Dea establishes from terms and intel any presentation to Version Dea establishes from terms and intel any presentation to Version Dea establishes from terms and intel any presentation to Version Dea establishes from terms and intel any presentation terms Dea establishes from terms and intel any presentation terms Dea establishes from terms and intel any presentation terms Dea establishes from terms and any any presentations Dea establishes from terms and any any presentations Dea establishes from terms and any any presentations Dea establishes from terms and any any and seats and disk | Singly have of Spannet Reservicy. In S. 10, 10, 31, 41, 51, 40, 53, 41, 55, 40, 55, 41, 55, 40, 55, 41, 55, 40, 55, 41, 55, 50, 50, 50, 50, 50, 50, 50, 50, 50 | 600 000 000 000 000 000 000 000 000 000 | n/a 54 |
| Provotista sativos Rothia destocaricos Rothia destocaricos Rothia destocaricos Rothia destocaricos Rothia destocaricos Rothia destocaricos Rothia destocaricos Rothia destocaricos Sachastactinia (1777) [G-1] sp. HMT-34 Schasta cobritolytos | Port and the second status and second statu | USS Nerin NetTC JP orygin USS Nerin NetTC JP hytoge provide NEXCLTS Calibles NEXDLTS NetTL AV NEXDLTS NetLL AV NEXDLTS NetLL AV NEXDLTS NetLL AV | matabala 44.0500038 matabala 44.0500038 matabala 44.0500017 matabala 44.0500017 matabala 44.0500017 matabala 44.0500017 matabala 44.0500017 matabala 44.0500017 tatabala 44.0500017 tatabala 44.0500017 tatabala 44.0500017 | Tex Instrumentation/SUCCENT | Predictor balance in resource due and treef fram balan and or of opplic assesshurdes. Predictor balance in the extendencies of Predictor balance and or opplic assesshurdes. Data balance frame have and or opplic assesshurdes. Pedidost balance frame have and or opplic assesshurdes. Data balance frame have and or opplic assesshurde | Singly Totauro Organization Educations, 199, 199, 216, 201, 201, 201, 201, 201, 201, 201, 201 | minimum minimu | nia S4 nia S4 |
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| Schaalia sp. OTU_7 Schaalia sp. OTU_7 | | | | | | | | | | | | |
|--|--|---|--|--|---|--|--|--|---|--|--|--|
| Schaelia sp. OTU_7 | N2 N2 | PRODUCES | fucosidase | enzyme | nia nia | nia | n/a | prediction | Prediction based on the characteristics of related S. odontolytica. Data retrived from review and not original research article. Variable | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | en en | nla S4 |
| | ala ala | PRODUCES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB0000190 | nia | nia | prediction | Prediction based on the characteristics of related S. odontolytica. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla S4 |
| Schaalia sp. OTU_7 | ala ala | PRODUCES | menaquinone | metabolite | nia nia | nia | nia | prediction | Prediction based on the characteristics of Schaalia genus. Tetrahydrogenated menacuinones with ten isoprene units (MK-10)H4) are the major respiratory quinones. | Femandez1987 10.1111§.1574-6968.1987.tb02191.x | a'a | ala |
| Sirhaalia sn. OTU 7 | din din | PRODUCES | nitte | mataholita | HMDR0007785 https://hmdb.ca/metabolites.HMDR0007781 | c/a | ela | avadiction | Particition based on the characteristics of related S, orienteristics. Data retried from soview and net minimal research atticle | Banay's Manual of Systematic Banteriology, Vol. 3,5, Edn. 2nd | en. | ala S4 |
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| Schaelle sp. 010_7 | 114 114 | USES | Lagrin | nestone | neubbooous (7 migs./mindo.cametabolias.neubbooous (7 | 114 | 174 | predicion | Precident saved on the characteristics of neural 6. opening of the neural network and net original research and e. | Bergey's warsal or systematic Bacteriology, vol. 3-6, Eur. 201 | hu . | 114 34 |
| Schaala sp. 010_7 | N2 N2 | USES | L-lysine | rivisabolite | HMUBUUUU182 Mps. Inmob. cametabolitas HMUBUUUU182 | 0.0 | f/a | preaction | Prediction based on the characteristics of related 5, odontolytica. Lata retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | 03 | NG 54 |
| Schaalia sp. OTU_7 | nia nia | USES | nitrate | metabolite | HMDB0002878 https://hmdb.ca/metabolites/HMDB0002878 | nla | nia | prediction | Prediction based on the characteristics of related S. odontolytica. Data retrived from review and not original research article. | Bargay's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia S4 |
| Schaelie so, HMT 172 | 172 https://www.homd.org/taxa/tax_description?otid=172 | PRODUCES | DNAse | enzyme | nia nia | n/a | r/a | experimental | Data retrived from review and not original research article. Some. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia. | nia S4 |
| Schaalia so HMT 172 | 172 https://www.bomd.org/tava/tav_description/https:// | PRODUCES | furnsidase | 0079700 | ela ela | c/a | ela | evnerimental | Prediction based on the characteristics of related S, educated S, admitted from review and net relivinal research activity. Variable | Banay's Manual of Systematic Banteriology, Vol. 3,5, Eds. 2nd | en. | ala S4 |
| Schools on LMT 172 | 172 Mar laws hand and makes by devolution/otid=172 | 100000000 | befor sold | matchelle | MATERIAL AND THE AND A MATERIAL AND | ala | 60 | two (model) | Installation based on the Chemistratic of Installation Constructions and the construction and construction of the Construction | Decay /a Maximi of Cystomatic Declarology, For 3/0, Carl 21/2. | 00 | ala 94 |
| Schware spHit1_1/2 | 172 https://www.fone.org/salariat_description/did=172 | PRODUCES | NCR: NOU | nestone | naubeccourse raps minde cametabolias naubeccourse | 1.14 | 174 | espermenta | Protection based on the characteristics of related 5, debriosyster, cara restrict non-review and not original related of antice. | bergey silvariae or oystematic becanology, vol. 3-0, col. 2nd. | hu . | 114 34 |
| Schaalia spHMT_172 | 172 https://www.homd.org/taxa/tax_description?otid=172 | PRODUCES | menaquinone | metabolite | a'n a'n | n/a | r/a | prediction | Prediction based on the characteristics of Schaalia genus. Tetrahydrogenated menaquinones with ten isoprene units [MK-10[H4]] are the major respiratory quinones. | Fernandez1987 10.1111/j.1574-6968.1987.tb02191.x | an a | ala |
| Schaalia spHMT_172 | 172 https://www.homd.org/taxa/tax_description?otid=172 | PRODUCES | nitrite | metabolite | HMDB0002786 https://hmdb.ca/metabolites/HMDB000278F | nla | nia | experimental | Prediction based on the characteristics of related S. odontolytica. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nla | nla S4 |
| Schaolia so HMT 172 | 172 https://www.homd.org/taxa/tax_description/orbits172 | 1/55.5 | amining | mataholita | HMDR0001517 https://hm/th.ca/metabolites.HMDR0000511 | c/a | e/a | eventeriantal | Papelintian based on the relatestaristics of related 5, orientributing. Data retrieved from soview and net retrieval asseamh article | Berney's Manual of Systematic Barteriology Viol 3,5 Edn 2nd | ¢n. | ala S4 |
| opresent ap1mi1_1/2 | The supervision of the second se | USE 2 | Cargonia | The second | | | | supervise and | The control of the control of the control of the set of | begey a mental of oppartness becanology, res. 5%, care pro- | 108 | |
| Schaala spHM1_1/2 | 1/2 https://www.nome.org/taxa/tax_description/otd=1/2 | USES | L-lysine | rivisabolite | HMUBUUUU182 Mps. Inmob. cametabolitas HMUBUUUU182 | 0.0 | f/a | experimental | Prediction based on the characteristics of related 5, odontolytica. Lata retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | 03 | Na 54 |
| Schaalia spHMT_172 | 172 https://www.homd.org/taxa/tax_description?otid=172 | USES | nitrate | metabolite | HMDB0002878 https://hmdb.ca/metabolites/HMDB0002878 | nla | nia | experimental | Prediction based on the characteristics of related S. odontolytica. Data retrived from review and not original research article. | Bargay's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia S4 |
| Selenomones so (1711-20 | da da | IS INHRITED BY | 00/060 | mataholita | HMDR0001377 https://hm/th.ca/metabolites.HMDR0001371 | ala | e/a | nation | Profinition hased on the inharasteristics of Salanomonas nervis. Data retrived from soview and net original research article | Berney's Manual of Systematic Barteriology, Vol. 3,5, Edn. 2nd | ¢n. | ala S4 |
| Characterization on 1997 CA | 71 March and an hand a share for state of the Out of OT | 100004070 | ang gan | makeh al ha | Landon and the second | | - 14 | and day | Production based on the elementation of platical R. Print which does not an end of a stability of platical second stability. | Description of the second of t | - | |
| Seeploccus sp. Hell-64 | 64 https://www.none.org/usiaraac_dascription/die-064 | PRODUCES | nyorogen peroxoe | nescore | HINDBOODS (25 HILPS / HINDBOODS (25 | 1.4 | 174 | p103C901 | Prediction based on the characteristics of integed 5. Integrates, case herewe had not original research article. | beigey's wartae of oysematic becenology, vol. 3-0, Edit 2012 | 194 | NW 04 |
| Streptococus sp. HMT-64 | 64 https://www.homd.org/taxa/tax_description?otid=054 | PRODUCES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB0000190 | nia | n/a | experimental | Prediction based on the characteristics of related S. milisionalis. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nla S4 |
| Streotocccus so, HMT-64 | 64 https://www.homd.org/taxa/tax_description?otid=054 | PRODUCES | pecifides | metabolite | nia nia | n/a | nia. | orediction | Prediction based on the characteristics of related S. millisionalis. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia. | nia S4 |
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| Chaptoroccus gorocris | Car Ingenteen of the of the second second second | | Crange: | eragene | | 20.41.00 | ingen min geroningen in york at over | supervise and | Construction of the interview of the conjugate of the conjugate of the con- | begey a menae of opartime becanology, rec. 50, car. 202. | 108 | |
| Streptococcus gordonii | 622 https://www.homd.org/taxa/tax_description/otid=622 | PRODUCES | UNASe | erzyne | na na | nia - | f/a | experimental | Lata netwel from review and not organal issearch article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | 03 | Na 54 |
| Streptococcus gordonii | 622 https://www.homd.org/taxa/tax_description?otid=622 | PRODUCES | fucosidase | enzyme | nia nia | nla | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia S4 |
| Streptococcus gordonii | 622 https://www.homd.org/taxa/tax_description?otid=622 | PRODUCES | hydrogen peroxide | metabolite | HMDB0003125 https://hmdb.ca/metabolites/HMDB0003125 | nla | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | en. | n/a S4 |
| Stantococcus contoni | 622 https://www.bomd.org/taxa/tax_description2ntidta622 | DBUOLINES | larfic and | mataholita | HMDR0000190 https://hmyth.ca/metabolites.HMDR0000191 | da | ela. | evena (mantal | Data ratio and from review and not infailed assauch a triale | Berney's Manual of Systematic Barteriology Viol 3,5 Edn 2nd | έn. | nia S4 |
| Charles and a l | (22) https://www.hourd.eu/hourd.eu | | L surfiller | makeh al ha | Landon and the second | | - 14 | and an average of the | | Calculation 2022 40 4420 mm atoms 20420 20 | https://www.com/activity.com/2000/2010/ | |
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| Streptococcus gordonii | ezz https://www.homd.org/taxa/tax_description?otid=622 | USES | L-arginine | metabolite | HMUBUUUUS1/ https://hmdb.ca/metabolites/HMDB0000517 | nia | ria | experimental | Data retrived from review and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | en e | nia S4 |
| Streptococcus mitis/oralis group | ala ala | PRODUCES | hydrogen peroxide | metabolite | HMDB0003125 https://hmdb.ca/metabolites/HMDB000312F | nia | nia | experimental | Data retrived from review and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | na | nia S4 |
| Streptococcus milis/oralis remun | ala ala | PRODUCES | IoA1 protease | 902vmP | ola ola | 3.4.21 - | r/a | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Erlin 2nd | 0k | 04 |
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| streptococcus mitis/oralis group | da en | PRODUCES | papēdas | metabolite | a'n an | nia | ria | experimental | Data retrived from review and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | en e | nia S4 |
| Streptococcus milis/oralis oroup | ala ala | PRODUCES | sialidase | enzyme | nia nia | 3.2.1.18 | https://www.gerome.jp/entry/3.2.1.18 | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia S4 |
| Strantococcus milisionale errore | da da | USES | nitite | mataholika | HMDR0002285 https://hmdb.ca/metabolites/HMDR0002287 | cia | ria. | evnerimental | Data ratiosef from review and not initial assauch a title | Barnay's Manual of Systematic Barteriology, Vol. 3,5, Eds. 2nd | én | ala 04 |
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| Streptococcus salivarius | /so https://www.homd.org/taxa/tax_description?otid=755 | HITEROLYSES | urea | metabolite | HMUBUUU2294 https://hmdb.ca/metabolites/HMDB0000294 | nia | ria | experimental | Data retrived from review and not original research article. Some. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | en e | nia S4 |
| Streptococcus salivarius | 755 https://www.homd.org/taxa/tax_description?otid=755 | PRODUCES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB000019F | nia | nia | experimental | Data retrived from review and not original research article. | Bargey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | na | nia S4 |
| Streptococcus salivarius | 755 https://www.homd.org/taxa/tax_description/https:// | USES | atrin | metabolite | HMDB0002786 https://hmdb.ca/metabolites/HMDB000278/ | nia | r/a | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Erlin 2nd | 0k | 04 |
| Startococcus santvinia | 758 https://www.homf.ophtasaltay_desreption/hote-758 | permittes | butinnen nemvide | mataholika | HMDR0003125 https://hmdb.ca/metabolites/HMDR000212 | ala | ria | two (montal | Data ratiosef from review and not inferioral season's affile | Barnay's Manual of Systematic Barteriology, Vol. 3,5, Eds. 2nd | én. | ala C4 |
| Stepiococcus sargons | /se mps/www.tome.org/unarus_orsorpren/ore=/se | PRODUCES | nyorogen peroxoe | meabora | HILDBOODS 125 HILDS / HILDBOODS 125 | 1.6 | The State | experimental | Class reprived richt remew and rick original research andee. | Deigey's manual of oysematic bacenology, vol. 3-0, E01. 202. | 194 | NW 04 |
| Streptococcus sanguinis | 758 https://www.homd.org/taxa/tax_description?otid=758 | PRODUCES | igA1 protease | enzyme | a'n a'n | 3.4.21 | r/a | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | an a | n/a S4 |
| Streptococcus sanguinis | 758 https://www.homd.org/taxa/tax_description?otid=758 | PRODUCES | lactic acid | metabolite | HMDB0000190 https://hmdb.ca/metabolites/HMDB000019* | nia | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nla | nla S4 |
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| Composition and party | The input www.tone.org/www.ukc_oupdate/tout-1.00 | PRODUCES | Contents | The second | | 100 | | supervise and | Construction of the interview of the conjunction of | begey a mental of opartime becanology, rec. 50, car. 202. | 108 | |
| Streptococcus sanguinis | /56 https://www.homd.org/taxa/tax_description/otd=/58 | PRODUCES | pepages | rivisabolite | na na | nia - | f/a | experimental | Lata netwell from review and not organal issearch article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | 03 | Na 54 |
| Streptococcus sanguinis | 758 https://www.homd.org/taxa/tax_description?otid=758 | USES | L-arginine | metabolite | HMDB0000517 https://hmdb.ca/metabolites/HMDB0000517 | nla | nia | experimental | Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia S4 |
| Streptococcus sp. OTU 10 | da da | INDROLYSES | U198 | metabolite | HMDB0000294 https://hmdb.ca/metabolites/HMDB000029/ | n/a | nia. | orediction | Prediction based on the characteristics of related S. salivarius. Data retrived from review and not original research article. Some. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia. | nia S4 |
| Streetworest as OTU 10 | als als | perceires. | India sold | matcholito | MADDOOD1191 More through colored abullary MADDOOD0192 | ala | ein. | américa | Enderstan based on the observativistics of mining C exclusion. Data while of two mules and actional accessith while | Bases / Manual of Sustantia Basteriology, Vol. 3.5, Eds. 3nd | ab | ala C4 |
| Steptococcus sp. 010_10 | 154 154 | PRODUCES | NC9C 200 | nescore | HILDBOOD (30 HILDS / IIII CO COMPANDING SHILDBOOD (30 | 1.9 | 174 | p103C901 | Production based on the characteristics of related 5, servertiss, base retries non-invitive and not original research and/e. | beigey's wantae of oysematic bacteriology, vol. 3-0, Edit 2012 | 194 | NW 04 |
| Streptococcus sp. OTU_10 | ala ala | USES | aštin | metabolite | HMDB0002786 https://hmdb.ca/metabolites/HMDB0002789 | n/a | r/a | prediction | Prediction based on the characteristics of related S. salivarius. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | an a | n/a S4 |
| Streptococcus sp. OTU_13 | nia nia | IS_INHERTED_BY | oxygen | metabolite | HMDB0001377 https://hmdb.ca/metabolites/HMDB0001377 | nia | nia | prediction | Prediction based on the characteristics of related S. anginosus. Data retrived from review and not original research article. Some. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nla | nla S4 |
| Strentheoremus ser OTU 13 | da da | PRODUCES | Amiltine | mataholita | HMDR0007214 https://hm/th.ca/metabolites.HMDR000725 | ala | e/a | nation | Profinition based on the inharacteristics of solated S, anninous, Data retrived from soview and not original research article | Berney's Manual of Systematic Barteriology, Vol. 3,5, Edn. 2nd | ¢n. | ala S4 |
| Characterization of CTU 42 | | 1000 | and an effective | makeh al ha | Lappropriet have been a selected day Lappropriet | | - 14 | and day | Professional and the demonstration of related C analysis of Data selected from on the and and advantation on some stable | Description of the second of t | - | |
| Steptococcus sp. 010_13 | 154 154 | 0.06.2 | Carbon dickoe | nescore | HILDBOOD (367 HILDS / HILDBOOD (367 | 1.9 | 174 | p103C901 | Produción dasado de una catalogía de nativado os angendases, basa retenvo erone novem ano nos original naseante ancien. | beigey's wantae or oysematic bacteriology, vol. 3-0, Edit 2012. | 194 | NW 04 |
| Streptococcus sp. OTU_13 | ala ala | USES | L-arginine | metabolite | HMDB0000517 https://hmdb.ca/metabolites/HMDB0000517 | n/a | r/a | prediction | Prediction based on the characteristics of related S. anginosus. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | an a | n/a S4 |
| Streptococcus sp. OTU_144 | ala ala | PRODUCES | hydrogen peroxide | metabolite | HMDB0003125 https://hmdb.ca/metabolites/HMDB0003125 | nla | nia | prediction | Prediction based on the characteristics of related S. millsionalis. Data retrived from review and not original research article. | Bargay's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | nia | nia S4 |
| Streptococcus sp. OTU 144 | da da | PRODUCES | IdA1 protease | enzyme | nia nia | 3.4.21 | r/a | orediction | Prediction based on the characteristics of related S. millioinalis. Data retrived from review and not original research article. | Bergey's Manual of Systematic Bacteriology, Vol. 3-5, Edn. 2nd. | 0h | n/a S4 |
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