|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ALGORITHMS** | **Input** | **ACCURACY** | **SENSITIVITY** | **SPECIFICITY** | **PRECISION** | **F1 SCORE** | **MCC** | **AUC** |
| *M. tuberculosis* | 6211 | 0.998 | 0.998 | 1.00 | 0.995 | 0.997 | 0.994 | 0.998 |
| *Bartonella\_henselae* | 2961 | 0.912 | 0.912 | 0.915 | 0.913 | 0.912 | 0.824 | 0.973 |
| *Bacillus anthracis* | 10552 | 0.936 | 0.936 | 0.952 | 0.936 | 0.936 | 0.870 | 0.982 |
| *Bartonella\_rochalimae* | 2514 | 0.873 | 0.873 | 0.879 | 0.873 | 0.873 | 0.746 | 0.953 |
| *Bartonella\_tribocorum* | 3857 | 0.911 | 0.911 | 0.936 | 0.912 | 0.911 | 0.822 | 0.969 |
| *Bordetella\_bronchiseptica* | 9286 | 0.971 | 0.971 | 0.987 | 0.972 | 0.971 | 0.942 | 0.997 |
| *Bordetella\_pertussis* | 6914 | 0.970 | 0.970 | 0.987 | 0.971 | 0.970 | 0.941 | 0.996 |
| *Brucella\_ovis* | 5610 | 0.909 | 0.909 | 0.935 | 0.911 | 0.909 | 0.820 | 0.970 |
| *Campylobacter\_coli* | 3023 | 0.957 | 0.957 | 0.967 | 0.958 | 0.957 | 0.912 | 0.992 |
| *Campylobacter\_curvus* | 3434 | 0.956 | 0.956 | 0.958 | 0.957 | 0.956 | 0.910 | 0.992 |
| *Campylobacter\_jejuni* | 2782 | 0.966 | 0.966 | 0.979 | 0.967 | 0.966 | 0.931 | 0.994 |
| *Campylobacter\_rectus* | 4417 | 0.907 | 0.907 | 0.885 | 0.907 | 0.907 | 0.811 | 0.968 |
| *Citrobacter\_amalonaticus* | 8995 | 0.943 | 0.943 | 0.958 | 0.944 | 0.943 | 0.886 | 0.987 |
| *Clostridioides\_difficile* | 7113 | 0.965 | 0.965 | 0.981 | 0.965 | 0.965 | 0.930 | 0.992 |
| *clostridium\_autoethanogenum* | 7793 | 0.945 | 0.945 | 0.947 | 0.946 | 0.945 | 0.891 | 0.988 |
| *Corynebacterium\_jeikeium* | 4051 | 0.938 | 0.938 | 0.961 | 0.940 | 0.938 | 0.877 | 0.985 |
| *Cryobacterium\_soli* | 7353 | 0.946 | 0.946 | 0.950 | 0.946 | 0.946 | 0.890 | 0.991 |
| *Cutibacterium\_acnes* | 4444 | 0.881 | 0.881 | 0.897 | 0.883 | 0.881 | 0.761 | 0.962 |
| *Escherichia\_coli* | 8470 | 0.926 | 0.926 | 0.965 | 0.929 | 0.926 | 0.854 | 0.975 |
| *Fannyhessea\_vaginae* | 2302 | 0.866 | 0.866 | 0.856 | 0.865 | 0.865 | 0.731 | 0.934 |
| *Granulibacter\_bethesdensis* | 4488 | 0.943 | 0.943 | 0.952 | 0.944 | 0.943 | 0.886 | 0.988 |
| *Haemophilus\_influenzae* | 3465 | 0.960 | 0.960 | 0.961 | 0.961 | 0.960 | 0.920 | 0.995 |
| *Helicobacter\_pylori* | 2774 | 0.948 | 0.948 | 0.959 | 0.948 | 0.948 | 0.895 | 0.986 |
| *Campylobacter\_concisus* | 3319 | 0.967 | 0.968 | 0.982 | 0.968 | 0.967 | 0.933 | 0.997 |
| *Lactococcus\_garvieae* | 3932 | 0.939 | 0.939 | 0.949 | 0.940 | 0.939 | 0.878 | 0.987 |
| *Lysinibacillus\_irui* | 8929 | 0.912 | 0.912 | 0.919 | 0.912 | 0.912 | 0.824 | 0.974 |
| *Prevotella\_nigrescens* | 4656 | 0.888 | 0.888 | 0.894 | 0.889 | 0.888 | 0.777 | 0.963 |
| *Prochlorococcus\_marinus* | 3631 | 0.931 | 0.931 | 0.910 | 0.931 | 0.931 | 0.860 | 0.977 |
| *Providencia\_alcalifaciens* | 7012 | 0.939 | 0.939 | 0.943 | 0.940 | 0.939 | 0.878 | 0.986 |
| *Renibacterium\_salmoninarum* | 5512 | 0.925 | 0.925 | 0.930 | 0.925 | 0.925 | 0.849 | 0.980 |
| *Rhodococcus\_aetherivorans* | 10805 | 0.942 | 0.942 | 0.945 | 0.942 | 0.942 | 0.883 | 0.984 |
| *Ruminococcus\_bovis* | 3165 | 0.874 | 0.874 | 0.903 | 0.877 | 0.874 | 0.748 | 0.931 |
| *Salmonella\_enterica* | 8264 | 0.931 | 0.931 | 0.939 | 0.932 | 0.931 | 0.861 | 0.982 |
| *Shigella\_flexneri* | 8554 | 0.928 | 0.928 | 0.940 | 0.928 | 0.928 | 0.855 | 0.981 |
| *Staphylococcus\_aureus* | 5368 | 0.917 | 0.917 | 0.942 | 0.919 | 0.917 | 0.836 | 0.966 |
| *Stenotrophomonas* | 7586 | 0.972 | 0.972 | 0.972 | 0.972 | 0.972 | 0.943 | 0.996 |
| *streptococcus\_agalactiae* | 3807 | 0.955 | 0.955 | 0.964 | 0.956 | 0.955 | 0.910 | 0.992 |
| *Streptococcus\_iniae* | 3706 | 0.970 | 0.970 | 0.964 | 0.970 | 0.970 | 0.940 | 0.995 |
| *Streptococcus\_oralis* | 3472 | 0.941 | 0.941 | 0.952 | 0.942 | 0.941 | 0.882 | 0.990 |
| *Streptococcus\_pneumoniae* | 3944 | 0.940 | 0.940 | 0.964 | 0.942 | 0.941 | 0.882 | 0.982 |
| *Streptococcus\_sobrinus* | 3814 | 0.928 | 0.928 | 0.935 | 0.928 | 0.928 | 0.855 | 0.984 |
| *Streptococcus\_suis* | 3904 | 0.948 | 0.948 | 0.943 | 0.948 | 0.948 | 0.894 | 0.989 |
| *Vibrio\_harveyi* | 10345 | 0.895 | 0.895 | 0.901 | 0.895 | 0.895 | 0.790 | 0.964 |
| *Xanthomonas\_hortorum* | 8247 | 0.928 | 0.928 | 0.959 | 0.931 | 0.929 | 0.859 | 0.982 |
| *Xanthomonas\_vesicatoria* | 8405 | 0.899 | 0.899 | 0.913 | 0.900 | 0.900 | 0.799 | 0.971 |
| *Yersinia\_pestis* | 7802 | 0.919 | 0.919 | 0.947 | 0.921 | 0.919 | 0.839 | 0.979 |