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| PHASE 2 - PILOTING  Actinobacteria | Growth parameters at 30˚C on PYCa media  *unless otherwise noted* | | | | | Phages Isolated, # |
| plate streak,  days | colony color & morphology | liquid culture, days | plate lawn,  days | notes |
| *Arthrobacter sp.* | 1 | yellow;  round; raised; | 1 | 1 | grows well at RT | 186 |
| *Gordonia terrae* | 5 | salmon; dark center; smooth; irregular | 3-4 | 2 |  | 22 |
| *Rhodococcus erythropolis* | 4 | white; round;  slightly raised | 2 | 2 |  | 63 |

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| PHASE 1 - IDENTIFICATION  Actinobacteria | Source  & Catalogue # | Growth parameters at 30˚C on PYCa media  *unless otherwise noted* | | | | |
| plate streak,  days | colony color & morphology | liquid culture, days | plate lawn,  days | notes |
| *Dietzia maris* | NRRL 16941 | 3-4 days | orange; round; raised; waxy | 3 days |  |  |
| *Gordonia lacunae* | NRRL 24551 | 2 days | pink; round; slightly raised; rough | 1-2 days | 1-2 days |  |
| *Gordonia neofelifaecis* | NRRL 59395 | 2 days | white; undulated; flat; wrinkled | 2 days |  |  |
| *Gordonia rubripertincta* | NRRL 16540 | 2 days | pink-orange; undulated; umbonate; waxy | 1-2 days | 2 days |  |
| *Gordonia westfalica* | NRRL 24152 | 2 days | undulate flat rough | 3 days | 3-4 days |  |
| *Mycobacterium chlorophenolicum* | NRRL 16528 | 4-5 days | pink/yellow/orange; round; raised; waxy | 4-5 days | 3-4 days | Use 7H10 |
| *Mycobacterium fredericksbergense* | NRRL 24126 | 1 week | yellow; small; raised; round | 1 week | 3-4 days | Use 7H10 & Tween |
| *Mycobacterium pyrenivorans* | NRRL 24349 | ~15 days | yellow; waxy; slightly raised | 1 week |  | Use 7H10 & Tween |
| *Mycobacterium smegmatis* | NRRL 24020 | 3-4 days | white; undulate; flat; wrinkled; | 1 day |  |  |
| *Mycobacterium vanbaalenii* | NRRL 24157 | 10 days | yellow; small; round; raised; waxy | 3-4 days | 3-4 days | Use 7H10 & Tween |
| *Nocardia carnea* | NRRL 1336 | 3-4 days | white; round; raised; rough |  |  | sporulates  very clumpy |
| *Nocardia coeliaca* | NRRL 1365 | 3-4 days | white; irregular; rough; raised |  |  | sporulates |
| *Nocardia flavorosea* | NRRL 16176 | 3-4 days | orange/yellow/white; round; raised; rough |  |  | sporulates |
| *Nocardia gamkensis* | NRRL 24450 | 4-5 days | white; small; round; rough |  |  | sporulates |
| *Nocardia harenae* | NRRL 24459 | 3-4 days | round slighly raised rough | 2 days | 2-3 days |  |
| *Rhodococcus erythropolis* | NRRL 1574 | 3-4 days | pearly white; two distinct morphologies | 1 day |  | Use Tween |
| *Rhodococcus fascians* | NRRL 16939 | 3-4 days | orange/yellow; round ;raised; waxy | 2 days | 1-2 days |  |
| *Rhodococcus kropenstedtii* | NRRL 59329 | 3-4 days | orange; round; waxy; raised | 2 days | 3-4 days |  |
| *Tsukamurella paurometabola* | NRRL 16960 | 2 days | off-white/yellow-tinged; undulated; flat; wrinkled | 1-2 days | 1 day | Use 4x Tween |
| *Tsukamurella sunchonensis* | NRRL 24668 | 3-4 days | flat irregular wrinkled | 2 days |  | Use 4x Tween |
| *Arthrobacter sp. R1* | ATCC 49987 | 1 day | off-white; round; raised; smooth; shiny | 1 day | 1 day |  |
| *Corynebacterim vitaeruminus* | ATCC 10234 | 2-3 days | yellow | 1-2 days | 1-2 days |  |
| *Corynebacterium flavescens* | ATCC 10340 | 2-3 days | yellow | 1-2 days | 1-2 days |  |
| *Corynebacterium glutamicum* | ATCC 14020 | 1-2 days | yellow | 1-2 days | 1-2 days |  |
| *Mycobacterium aichiense* | ATCC 27281 | 4-5 days | round; waxy; shiny |  | 3-4 days | Use 7H10 |
| *Mycobacterium aurum* | ATCC 23366 | about 8 days | pomegranate; round; waxy; shiny |  | 1 week | Use 7H10 |
| *Mycobacterium phlei* | ATCC BAA-486 | 1 week | very bright yellow; round; waxy; shiny | 3-4 days | 2-3 days | Use PYCa, LB, or 7H10 |
| *Mycobacterium thermoresistibile* | ATCC 19257 | 7-10 days | greyish brown; opaque; irregular; flat; rough |  | > 1 week | Use 7H10 Tween |
| *Norcardia corynebacteroides* | ATCC 14898 | 4-5 days | bright orange; irregular; shiny; raised | 2 days | 2 days | Use 7H10 |