

Electrotransformation on selected plant growth-promoting Rhizobacteria (PGPR) and Chromobacterium violaceum

ABSTRACT

Electrotransformation was successfully transferred a 21.6 kb cosmid vector pLAFR1 into the selected Plant Growth-Promoting Rhizobacteria (PGPR) and Chromobacterium violaceum with maximum efficiency about 107 transformants/ μ g at electric field strength of 10kV/cm for shorter pulse length range between 4.1 to 4.4 milliseconds and about 108 transformants/ μ g at electric field strength of 5kV/cm for a longer pulse length range between 8.5 to 8.7 milliseconds. Longer incubation period will increase the transformation efficiency but continuing increasing the period after 20 hours will decrease the transformation efficiency.

Keyword: Electrotransformation; Plant Growth-Promoting Rhizobacteria (PGPR); Chromobacterium violaceum; Cosmid vector pLAFR1