

Blue/White Color Screening

For blue/white color screening host strains capable of λ -complementation must be used. These hosts carry *lacZ* M15 and *lacI*_q on an F' episome.

Method

To use blue/white color screening for recombinants and to maintain antibiotic selection, plate transformed cells on LB plate containing the appropriate antibiotic, 0.1M IPTG and 40 μ g/ml X-Gal. Incubate overnight at 37°C.

An alternate to preparing plates containing X-Gal and IPTG is to spread 50 μ l of 50mg/ml X-Gal and 100 μ l of 0.1M IPTG onto previously prepared LB/antibiotic plates. Allow these components to absorb for at least 30 minutes or until the plate surface appears dry at 37°C prior to plating cells.