

X-gal/IPTG on LB Plates (Blue/White Screening)

-Add 100ul of 0.1M IPTG or 4ul of 200mg/ml IPTG to surface of an LB/Antibiotic plate

-Add 40ul 2% X-gal (in DMSO) to surface of an LB/Antibiotic plate

Spread IPTG and X-gal using a bacterial spreader. Allow fluid to absorb for at least 30' prior to bacterial plating.

IPTG should be made up in H₂O, sterile filtered with a 0.22um filter and stored in 1ml aliquots at -20°C.

X-gal should be made up in DMSO, stored at -20°C and wrapped in foil to protect it from light.

IPTG and X-gal can be added to LB and warmed to 37°C prior to adding to the LB plates, this helps prevent precipitation of X-gal when DMSO is thawed and added to the plate.