

IPTG and X-gal Solutions

Blue/white color selection for bacterial colonies

Spread on top of agar plates	100 µl of 40 mM IPTG solution
	100 µl 2% X-gal solution
Incorporated into agar plates	20 mM IPTG
	80 µg/ml X-gal

Blue/white color selection for plaques

2 – 3 ml NZY top agar

Add the following to the melted and cooled agar (~48°C)*

15 µl	500 mM IPTG solution
50 µl	250 mg/ml X-gal solution

* As higher concentrations of IPTG and X-gal often result in the formation of a precipitate which disappears after incubation, we suggest that the solutions be added separately to the NZY top agar.