Transformation of DH5 alpha cells

Take 1 vial of competent cells (50 µl) for plasmid transformation, or 2 vials of competent cells (100 µl) for ligation mix transformation.
Use 1 µl of 1:50 dilution of a miniprep plasmid DNA or 1 µl of 10 µl ligation mix for one transformation.
Incubate cells and DNA in a 12 ml opaque off-white tube and incubate on ice for 20 min.
Heat-shock at 42ºC for exactly 2 min. The temperature and time is very critical.
Sit on ice for 2 min.
Add 1 ml of SOC medium and incubate at 37ºC with slow shake (100 rpm) for 45–60 min.
Transfer cells into an Eppendorf tube. Spin full-speed on bench-top centrifuge for 1–2 min. Aspirate supernatant but leave ~ 300 µl of medium behind. Resuspend cells in the residual medium. Plate 100 µl and 200 µl of cells onto two LB+ amp plates. Incubate at 37ºC overnight.