

Transformation

Experimental Aim: Transforming competent DH5-Alpha and BL21 DE3 Cells with ligated pET28a plasmid.

Method: The Transformation for BL21 DE3 and DH5-Alpha cells were carried out using the standard transformation protocol.

Observation:

No growth was observed in any of the LB+kan plates.

Conclusions:

- Transformation protocol wasn't followed properly.
- Cells might not be competent.
- Ligation wasn't proper.
- Plasmid quality wasn't good.

Planned on repeating the experiment carefully with the remaining ligated mix.

Transformation

Experimental Aim: Transforming competent DH5-Alpha and BL21 DE3 Cells with the remaining ligated pET28a plasmid from 1/07/2021.

Method: The Transformation for BL21 DE3 and DH5-Alpha cells were carried out using the standard transformation protocol.

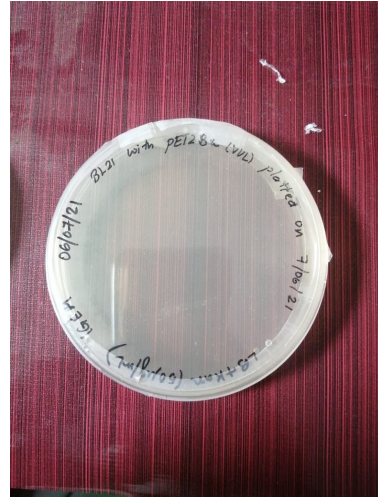
Observation:

- For BL21-DE3 , Growth was noticed in the plates without pET28a (MAYBE SOME ERROR, will be sorted out soon after plasmid DNA isolation).
- For BL21-DE3 , No growth was observed in the plates of with pET28a.
- For DH5-alpha , Growth in the plates of with pET28a & no growth in the plates of without pET28a.

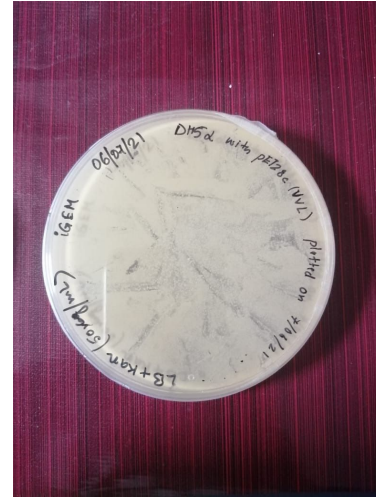
Transformation with the remaining ligated mixture



BL21-DE3 without
pET28a



BL21-DE3 with
pET28a



DH5-Alpha with
pET28a



DH5-Alpha
without pET28a

PLANT WORK

DATE	WORK
07/07/21	Barley Seed Sterilisation
08/07/21	Plating of unsterilised barley seeds in petri plates.
09/07/21	Plating of sterilised barley seeds in petri plates , planting seeds in the soil (both sterilised & unsterilised)