

Plasmid Isolation

Experimental Aim: To isolate pET28a from transformed DH5-Alpha cells using the MN NucleoSpin plasmid isolation kit. Controls taken: DH5-Alpha without pET28a in LB+kan (negative control) [sample2]

Observations:

No pellets seen after first centrifugation in sample 2 whereas pellets were observed in sample 1.

| Sample | LB | Antibiotic (Stock Conc.) | Antibiotic (Working Conc.) | Observations after 13 hrs |
|------------------|------|--------------------------|----------------------------|---------------------------|
| pET28a (NL) | 5 mL | 100 mg/mL of Kan | 50 ug/mL of Kan | Turbid |
| Negative Control | 5 mL | 100 mg/mL of Kan | 50 ug/mL of Kan | No turbidity |

Nanodrop Result

| | ng/uL | A 260/ A280 | A 260/A 280 |
|-----------------|--------------|--------------------|--------------------|
| Sample 1 | 8.8 | 1.58 | 0.63 |
| Sample 2 | 2.9 | 1.76 | 0.88 |

Agarose Gel Electrophoresis

Experimental aim: To run the plasmid isolated from Sample 1 and Sample 2 along with plasmid isolated on 14-05-2021 for conformation of plasmid.

Observation:

Sample 1:

No bands observed

Sample 2:

No bands observed

Plasmid isolated on 14-05-2021

2 bands were observed between 4kb and 2kb

Agarose Gel Electrophoresis

