

aTc TEST 09/09/09

Repetition of yesterday test for accidental death of A16

Description: Induction test: we induce A8 , A16 and A9 with aTc

Purpose: estimation of induction curve using different concentration of aTc

Methods: A flat-bottom non sterile plate is used. 96 wells are filled with:

- 200 ul LB+Amp,
- A16 induced with aTc 300ng/ml
- A16 induced with aTc 200ng/ml
- A16 induced with aTc 100ng/ml
- A16 induced with aTc 75ng/ml
- A16 induced with aTc 50ng/ml
- A16 induced with aTc 25ng/ml
- A16 induced with aTc 0ng/ml
- A9 induced with aTc 300ng/ml
- A9 induced with aTc 200ng/ml
- A9 induced with aTc 100ng/ml
- A9 induced with aTc 75ng/ml
- A9 induced with aTc 50ng/ml
- A9 induced with aTc 25ng/ml
- A9 induced with aTc 0ng/ml
- BBa_E0240 (negative control)
- A1 (J100-GFP) (positive control)
- 200ul A9 induced with aTc 75ng/ml in falcon and incubated with other dipping coltures

Dilution: coltures were incubated in 5ml LB+Amp 37°C 220 rpm overnight and then diluted 1:1000 (2 steps of 1:100 dilution (50ul in 500ml LB), 500ul in 4.5ml(500ul in 4,5ml LB))

After dilution, falcons were incubated 37°C 220 rpm for about 4 hours. LB is infected in 96-wells plate by dipping pipette in infected culture and then in LB, excluding one well filled with 200ul A9 induced in falcon.

aTc dilution: Clontech aTc: 200ul of 2mg/ml.

Work concentration:

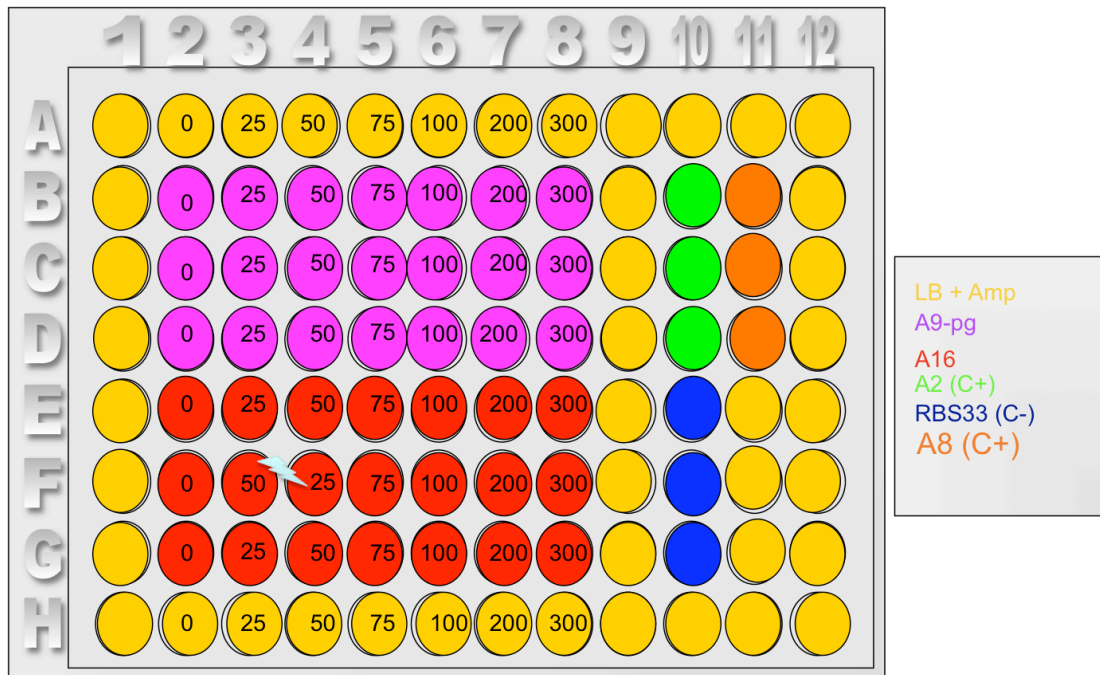
- aTc 1000x: aTc 100ug/ml in 50%ethanol -> 20ul aTc + 380ul 50% ethanol

our concentrations (2ul of dilution added to 200ul of coltures):

- 0ng/ml -> 0ng/200ul
- 25 ng/ml -> 0.025ng/ul->in 200ul 5ng -> 5ng/2ul =2.5ng/ul
- 50ng/ml-> 0.05ng/ml-> in 200ul 10ng -> 10ng/2ul=5ng/ul
- 75ng/ml -> 0.075 ng/ml -> in 200ul 15ng -> 15ng/2ul=7.5ng/ul
- 100ng/ml -> 0.1ng/ul -> in 200ul 20ng -> 20ng/2ul=10ng/ul
- 200ng/ml -> 20ng/ul
- 300ng/ml -> 30ng/ul

aTc dilutions:

- 0ng/ul
- 2.5ng/ul -> 1:2 dilution of 5ng/ul (10ul+10ulH2O)
- 5ng/ul-> 1:2 dilution of 10ng/ul (15ul+15ulH2O)
- 7.5ng/ul -> 3:4 dilution of 10ng/ul (15ul+5ulH2O)
- 10ng/ul -> 1:10 dilution of 100ug/ml=(100ng/ul) -> 5ul 100ug/ml in 45ul H2O
- 20ng/ul -> 1:5 dilution of 100ug/ml -> 10ul 100ug/ml in 40ul H2O
- 30ng/ul -> 1:3.3 dilution of 100 ug/ml -> 16,65ul 100ug/ml in 33,35ul H2O



The induction with aTc are in ng/ml  mistake in filling the plate