

## A1A2A7 TEST 17/09/09

**Description:** Fluorescence estimation in green (GFP) and red (RFP)

**Purpose:** estimation of fluorescence in cultures of J100, J101 and J118 promoters expressing GFP or RFP

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

- 200 ul LB+Amp,
- 200 ul J100 (RFP, non standard plasmid)
- 200 ul J101 (RFP, non standard plasmid)
- 200 ul J118 (RFP, non standard plasmid)
- 200 ul A1 (J100-GFP)
- 200 ul A2 (J101-GFP)
- 200 ul A7 (J118-GFP)
- 200 ul BBa\_E0240 (negative control)

Dilution: cultures were incubated in 5ml LB+Amp 37°C 220 rpm overnight and then diluted 1:1000 (3 steps of 1:10 dilution, 500ul in 4.5ml)

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.

### **Protocol:**

- The plate is filled as described in Methods
- The instrument temperature was set at 37°C
- Dynamic cycle:
  - Shaking 15 s linear 3mm, waiting 10s and absorbance, GFP and RFP measurement.
  - Fluorescence gain setting: 50 to avoid overflow

