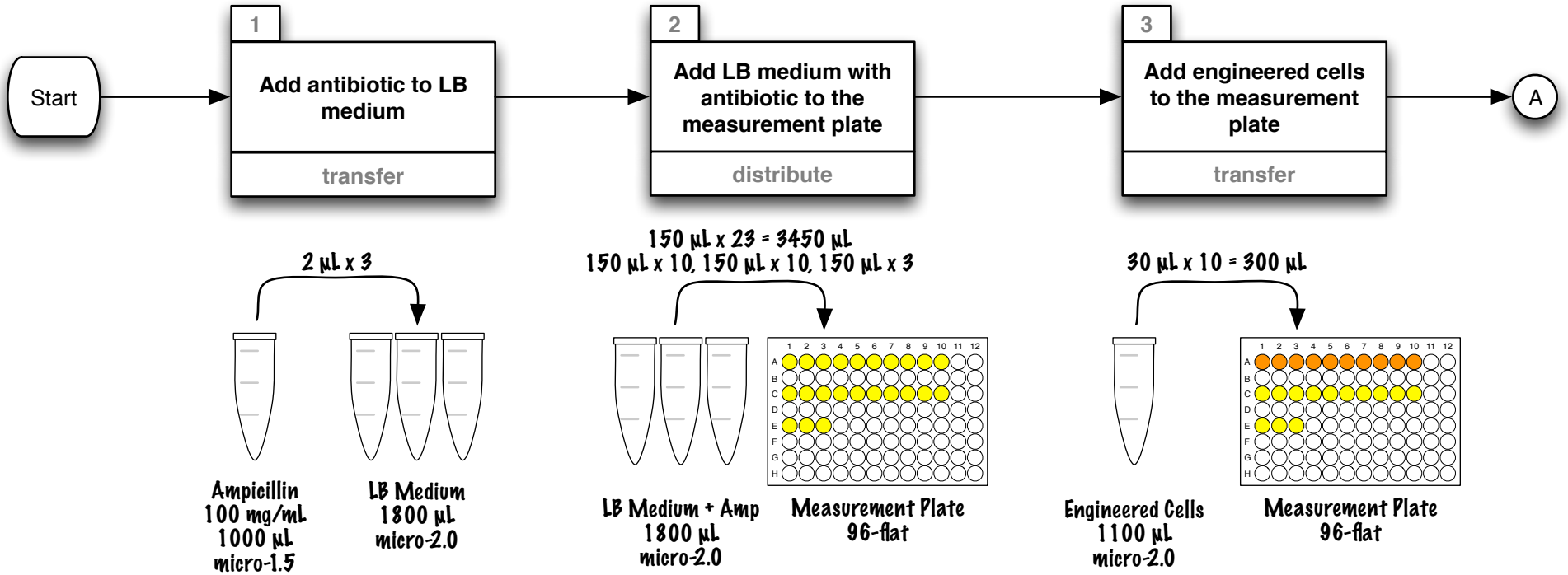
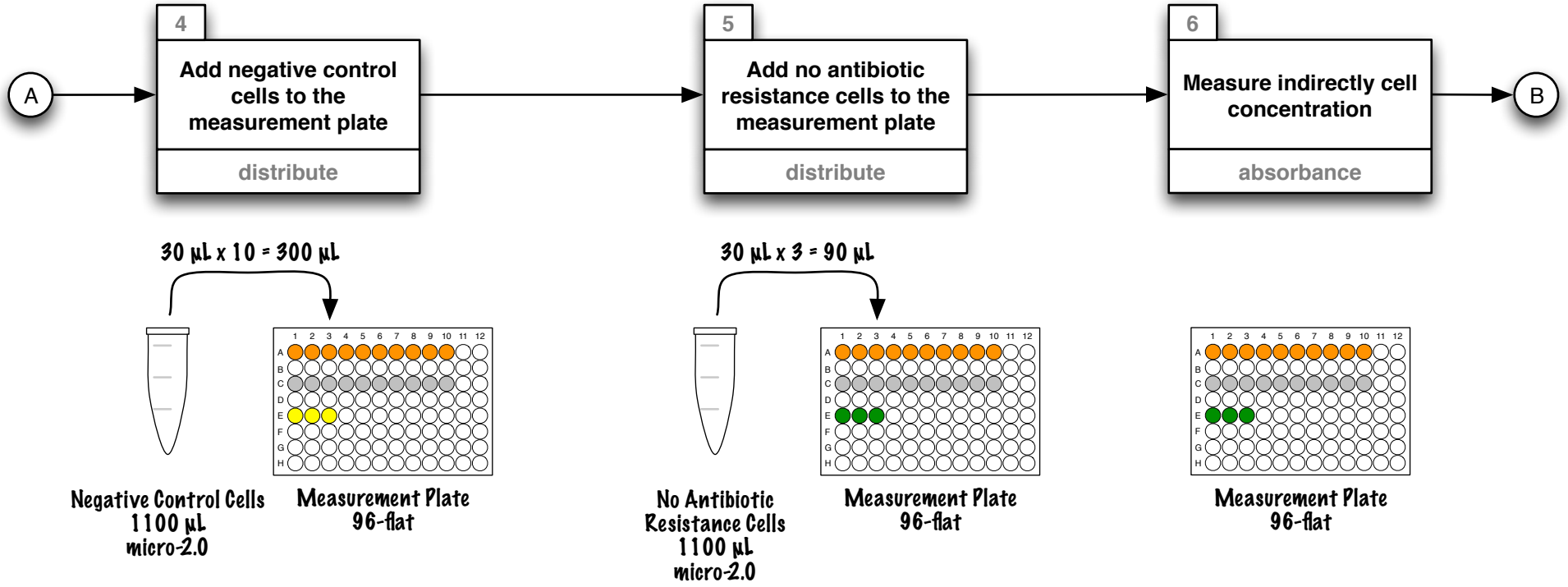
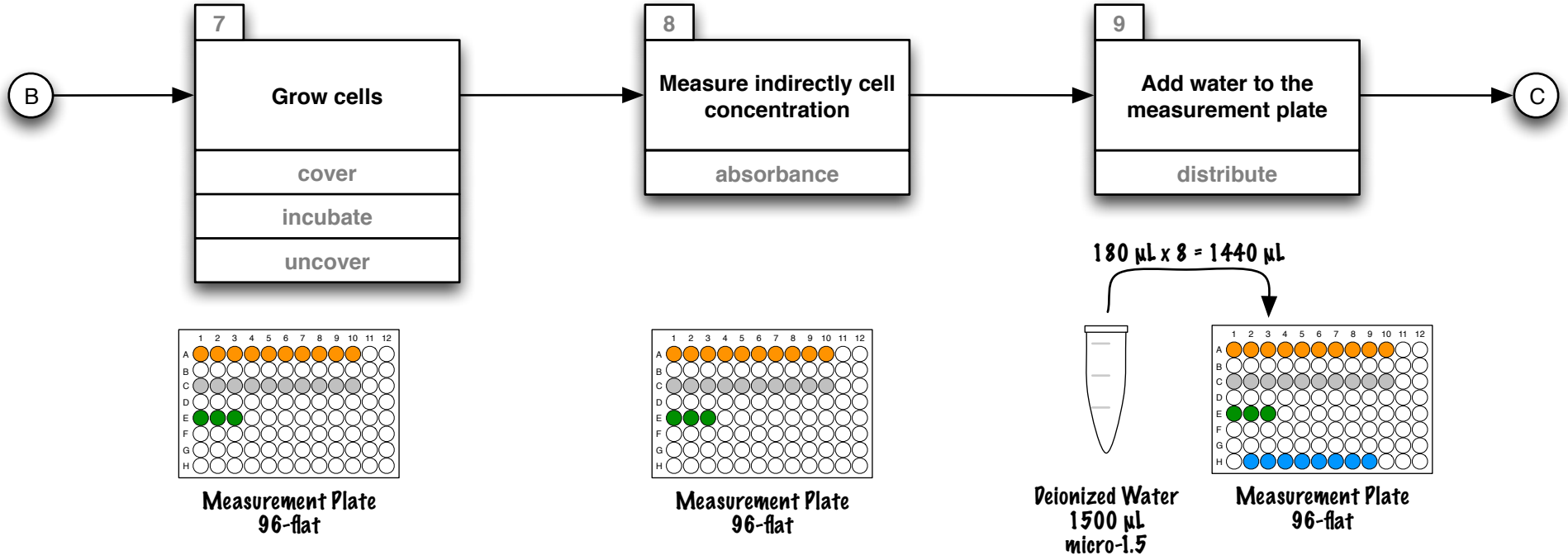
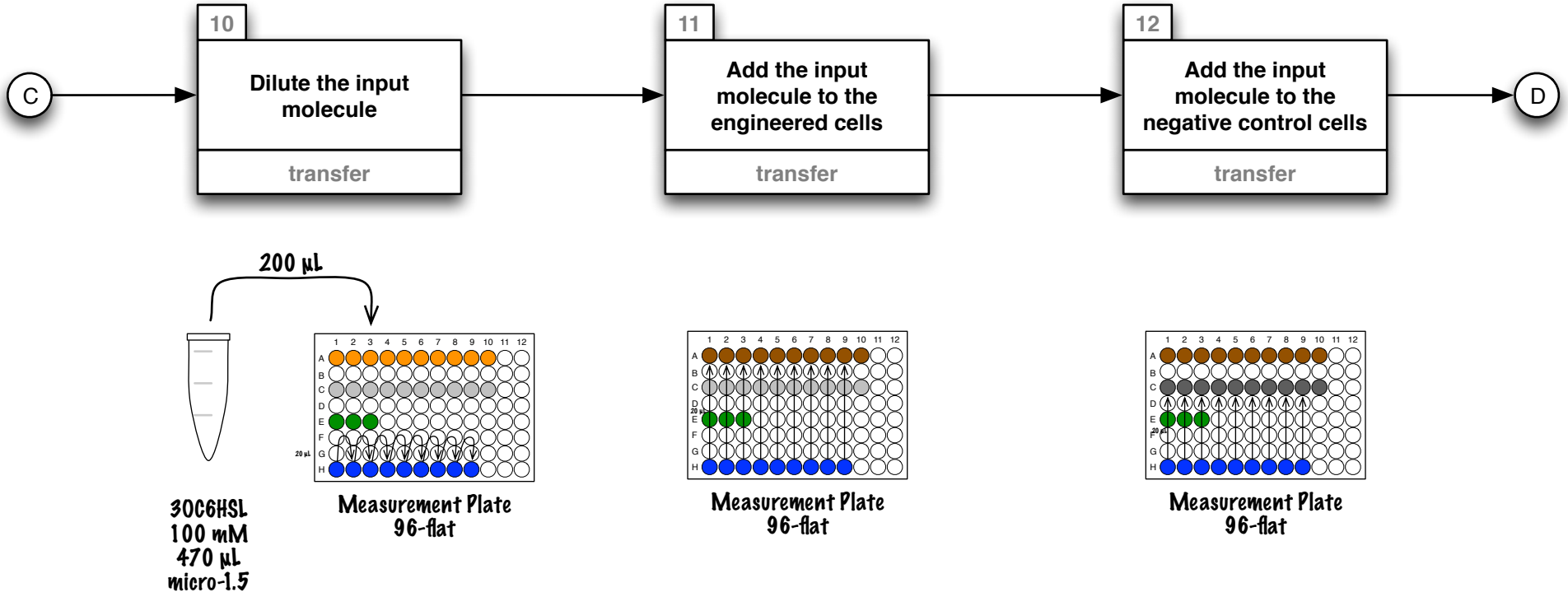
Engineered Cell Activation Protocol
Version 0.1.1 2

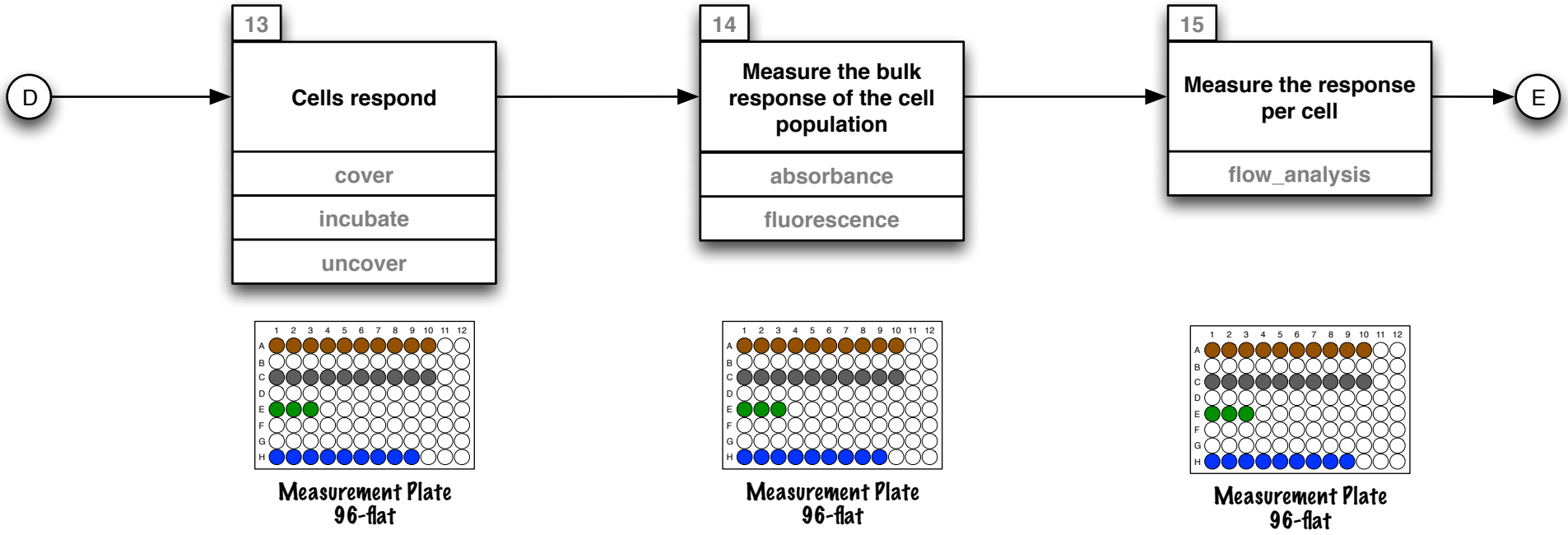


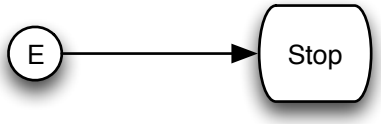
- LB Medium Only
- Engineered Cells + Medium
- Engineered Cells + Medium + Input Molecule
- Negative Control Cells + Medium
- Negative Control Cells + Medium + Input Molecule
- No Antibiotic Resistance Cells + Medium
- Water
- Input Molecule + Water
- Empty Well


A
4
Add negative control cells to the measurement plate
distribute
5
Add no antibiotic resistance cells to the measurement plate
distribute
6
Measure indirectly cell concentration
absorbance
B
30 µL x 10 = 300 µL
30 µL x 3 = 90 µL
Negative Control Cells
1100 µL
micro-2.0
Measurement Plate
96-flat
No Antibiotic
Resistance Cells
1100 µL
micro-2.0
Measurement Plate
96-flat
Measurement Plate
96-flat


B
7
Grow cells
cover
incubate
uncover
8
Measure indirectly cell concentration
absorbance
9
Add water to the measurement plate
distribute
C
180 µL x 8 = 1440 µL
Measurement Plate
96-flat
Measurement Plate
96-flat
Deionized Water
1500 µL
micro-1.5
Measurement Plate
96-flat


C
10
Dilute the input molecule
transfer
11
Add the input molecule to the engineered cells
transfer
12
Add the input molecule to the negative control cells
transfer
D
200 µL
3OC6HSL
100 mM
470 µL
micro-1.5
Measurement Plate
96-flat
Measurement Plate
96-flat
Measurement Plate
96-flat


D
13
Cells respond
cover
incubate
uncover
14
Measure the bulk response of the cell population
absorbance
fluorescence
15
Measure the response per cell
flow_analysis
E
Measurement Plate
96-flat
Measurement Plate
96-flat
Measurement Plate
96-flat


E
Stop