Lamda Assay

For 1000 uL rxn:

* Primer Dilution:
  + Our “stock” is 100 uM forward and 100 uM reverse.
  + For this reaction we need 100 uL of 2.5 uM of each primer (combined).
  + Perform serial dilutions as follows:
    1. For 20 uM: Combine 20 uL of each primer with 60 uL TE.
    2. For 10 uM: Combine 50 uL of 20 uM primer with 50 uL TE.
    3. For 2.5 uM: Combine 25 uL of 10 uM primer with 75 uL TE.
* Template Dilution:
  + Our “stock” is ~9.28x109 copies/uL
  + For this reaction we need ~9.28x104 copies/uL
  + Perform serial dilutions as follows:
    1. For 9.28x108: Combine 10 uL of the stock with 90 uL TE.
    2. Repeat step 1 four more times using the most recent dilution instead of the stock.
  + Each of these dilutions lowers the order of magnitude ten-fold from the previous dilution so the first dilution yields 108, the second yields 107, etc.
* Master Mix:

1. 600 uL dH2O
2. 200 uL 5xPCR MM
3. 100 uL 9.28x104 template
4. 100 uL 2.5 uM primer