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 100 uL of 10 uM primer with 300 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 30 uL of the stock with 270 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

It is unnecessary to dilute from the stock every time because there should be more of the other dilutions left over.