**LIBRARY QC**

Initials: Date:

SAMPLE NAMES:

1. QUBIT (ng/µl)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| A |  |  |  |  |  |  |  |  |  |  |  |  |
| B |  | STD 1 |  |  |  |  |  |  |  |  |  |  |
| C |  | STD 2 |  |  |  |  |  |  |  |  |  |  |
| D |  | STD 3 |  |  |  |  |  |  |  |  |  |  |
| E |  | STD 4 |  |  |  |  |  |  |  |  |  |  |
| F |  | STD 5 |  |  |  |  |  |  |  |  |  |  |
| G |  | PhiX |  |  |  |  |  |  |  |  |  |  |
| H |  |  |  |  |  |  |  |  |  |  |  |  |

1. TAPESTATION (Average Size in bp)
2. qPCR
3. Calculate # Samples:

STDS 1-5 X 3 = 15

PHIX X 3 = 3

\_\_ Samples X 6 =

1. Make Master Mix:

|  |  |  |
| --- | --- | --- |
|  | 1X | X |
| 2X KAPA MM | 6µl |  |
| dH2O | 2µl |  |
| Total | 8µl/rxn |  |

1. DILUTE LIBRARIES: (Load 2nd dilution)

You will make two serial dilutions in duplicate.

1. 1:100 dilution 🡪 2µl Lib + 198µl 1X Dilution Buffer
2. 1:1000 dilution 🡪 2µl of diluted library from (1) + 198µl 1X Dilution Buffer

*Load the 1:1000 dilution!*

1. Set up qPCR plate following map.

Add 8µl of Master Mix to each well, then add 2µl of template.

\* Use a new tip every time

1. RESULTS

Use the Illumina excel sheet to calculate final molarity. Record final molarity in nM here.