Worksheet for Bumble Bee Survey 2015 virus assays

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

Target: Re-running standards for IAPV and ACT.

2015 qPCR: Samples : ACT, IAPV

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Stock** | **Final konc** | **20 µl** | **10 µl** |  | **22** | **\* 80%** |
| **H2O** |  |  |  | 1.475 |  | **32.45** |  |
| **iTaq Universal SYBR Green mix** | 2x | 1x |  | 5 |  | **110** |  |
| **Primer 1** | 10 μM | 0.2 μM |  | 0.2 |  | **4.4** |  |
| **Primer 2** | 10 μM | 0.2 μM |  | 0.2 |  | **4.4** |  |
| **iScript reverse transcriptase** |  | 1x |  | 0.125 |  | 2.75 | **2.2** |
| **Template RNA** |  |  |  | 3 |  | **3** |  |
|  |  |  |  |  |  |  |  |

Use 7 ul for each rns + 3 ul RNA = 10 ul/rxn