Worksheet 2017: Plant Transmission II - preliminary:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | target |
| A | Stock | -7 | -5 | -3 | -7raw | Gblock |  |  |  |  |  |  | DWV |
| B | Stock | -7 | -5 | -3 | -7raw | NTC |  |  |  |  |  |  | DWV |
| C | Stock | -7 | -5 | -3 | -7raw |  |  |  |  |  |  |  | DWV |
| D |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  |  |  |  |  |  |  |  |  |  |  |  |
| G |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H |  |  |  |  |  |  |  |  |  |  |  |  |  |

qPCRs to determine the concentration of serial dilutions of purified DWV inoculum from Humberto. Included (-7raw) are raw samples of this inoculum that underwent two serial dilutions. The goal of this work is to determine how to detect field realistic hand inoculated virus on flowers.

DWV:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Stock** | **Final konc** | **20 µl** | **10 µl** |  | **19** | **\* 80%** |
| **H2O** |  |  |  | 1.475 |  | **28.025** |  |
| **iTaq Universal SYBR Green mix** | 2x | 1x |  | 5 |  | **95** |  |
| **Primer 1** | 10 μM | 0.2 μM |  | 0.2 |  | **3.8** |  |
| **Primer 2** | 10 μM | 0.2 μM |  | 0.2 |  | **3.8** |  |
| **iScript reverse transcriptase** |  | 1x |  | 0.125 |  | 2.375 | **1.9** |
| **Template RNA** |  |  |  | 3 |  | **3** |  |
|  |  |  |  |  |  |  |  |