Worksheet 2017: California vs Local bee study:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | target |
| A | 79 | 40 | 45 |  |  |  |  |  |  |  |  |  | IAPV |
| B | 79 | 40 | 45 |  |  |  |  |  |  |  |  |  |  |
| C | 79 | 40 | 45 |  |  |  |  |  |  |  |  |  |  |
| D |  |  |  | 60 |  |  |  |  |  |  |  |  | BQCV |
| E |  |  |  | 60 |  |  |  |  |  |  |  |  |  |
| F |  |  |  | 60 |  |  |  |  |  |  |  |  |  |
| G | 79 | 40 | 45 | 60 |  |  |  |  |  |  |  |  | ACT |
| H | 79 | 40 | 45 | 60 |  |  |  |  |  |  |  |  |  |

California vs Local bee study qPCR for virus Assays: clean up plate (reruns for samples that came up as being positive for only one replicate. Rerunning in triplicates to find best out of 3)

BQCV

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Stock** | **Final konc** | **20 µl** | **10 µl** |  | **6** | **\* 80%** |
| **H2O** |  |  |  | 1.475 |  | **8.85** |  |
| **iTaq Universal SYBR Green mix** | 2x | 1x |  | 5 |  | **30** |  |
| **Primer 1** | 10 μM | 0.2 μM |  | 0.2 |  | **1.2** |  |
| **Primer 2** | 10 μM | 0.2 μM |  | 0.2 |  | **1.2** |  |
| **iScript reverse transcriptase** |  | 1x |  | 0.125 |  | 0.75 | **0.6** |
| **Template RNA** |  |  |  | 3 |  | **3** |  |
|  |  |  |  |  |  |  |  |

IAPV

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Stock** | **Final konc** | **20 µl** | **10 µl** |  | **12** | **\* 80%** |
| **H2O** |  |  |  | 1.475 |  | **17.7** |  |
| **iTaq Universal SYBR Green mix** | 2x | 1x |  | 5 |  | **60** |  |
| **Primer 1** | 10 μM | 0.2 μM |  | 0.2 |  | **2.4** |  |
| **Primer 2** | 10 μM | 0.2 μM |  | 0.2 |  | **2.4** |  |
| **iScript reverse transcriptase** |  | 1x |  | 0.125 |  | 1.5 | **1.2** |
| **Template RNA** |  |  |  | 3 |  | **3** |  |
|  |  |  |  |  |  |  |  |

ACTIN

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Stock** | **Final konc** | **20 µl** | **10 µl** |  | **11** | **\* 80%** |
| **H2O** |  |  |  | 1.475 |  | **16.225** |  |
| **iTaq Universal SYBR Green mix** | 2x | 1x |  | 5 |  | **55** |  |
| **Primer 1** | 10 μM | 0.2 μM |  | 0.2 |  | **2.2** |  |
| **Primer 2** | 10 μM | 0.2 μM |  | 0.2 |  | **2.2** |  |
| **iScript reverse transcriptase** |  | 1x |  | 0.125 |  | 1.375 | **1.1** |
| **Template RNA** |  |  |  | 3 |  | **3** |  |
|  |  |  |  |  |  |  |  |