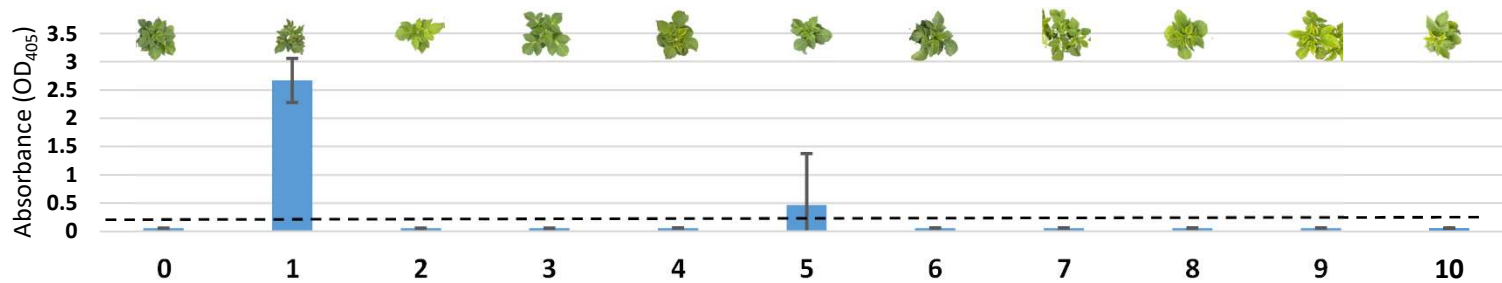
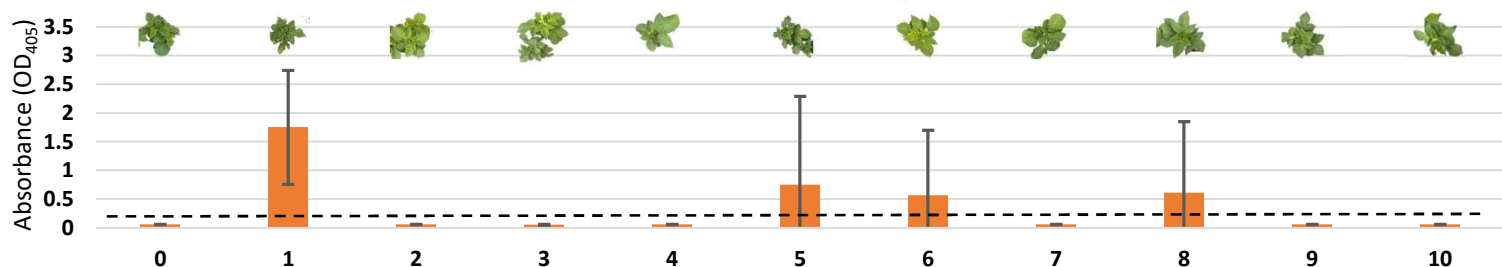


**Sterilization between every 1 tuber**



Average (Cq)	37.19±	<b>26.62±</b>	38.37±	34.64±	38.95±	38.52±	36.16±	35.49±	35.40±	33.92±	33.70±
STDEV	3.08	<b>2.03</b>	3.32	2.45	2.34	3.44	2.49	3.36	3.86	1.77	0.40

**Sterilization between every 10 tubers**



Average (Cq)	36.81±	<b>26.36±</b>	<b>30.14±</b>	<b>31.70±</b>	36.26±	33.42±	<b>31.41±</b>	34.87±	33.61±	<b>30.77±</b>	34.04±
STDEV	3.82	<b>5.79</b>	<b>3.87</b>	<b>1.61</b>	2.95	5.34	<b>5.71</b>	4.47	5.01	<b>7.53</b>	1.61

**Figure 1.** Growout results of leaflet ELISA following collection of direct tuber cores where sterilization of corers was done using two methods: between every 1 or every 10 tubers. Numbers under the graphs represent IC-qPCR results from fresh cores before growout. Potato tubers were selected based on preliminary IC-qPCR using one core from apical end. Dotted line = positive ELISA threshold. All bars and means represent average of five replicates with standard deviation.

**Table 1.** Direct tuber Cq values of IC-qPCR results following two sampling methods: without sterilization, coring from 1 positive tuber followed immediately by collecting cores from 10 negative tubers, either 1 or 3 cores were collected per tuber. If positive tubers have lower Cq value, a high chance that positive sap will carry over to another core. However, growout results (Figure 1) show that plants were not infected from potential mechanical inoculation of tubers.

Trt	1 core			3 cores			
	Rep 1	Rep 2	Rep 3	Rep 1	Rep 2	Rep 3	Rep 4
0	<b>24.97</b>	<b>28.68</b>	<b>22.57</b>	<b>23.94</b>	<b>22.79</b>	<b>23.31</b>	<b>25.17</b>
1	<b>30.07</b>	40.00	<b>26.47</b>	<b>28.12</b>	<b>26.83</b>	<b>27.94</b>	<b>31.51</b>
2	32.19	36.09	<b>29.86</b>	<b>29.09</b>	<b>31.95</b>	<b>31.87</b>	<b>32.07</b>
3	34.17	34.52	<b>29.97</b>	34.92	33.57	33.98	38.82
4	36.06	35.03	<b>30.97</b>	35.05	40.00	32.51	34.30
5	35.86	40.00	33.09	33.96	33.76	<b>21.41</b>	35.62
6	35.14	40.00	<b>31.67</b>	34.78	40.00	<b>27.80</b>	34.97
7	35.87	40.00	33.65	33.56	34.12	<b>25.38</b>	36.37
8	36.12	38.23	32.53	34.27	<b>17.43</b>	32.45	34.97
9	37.27	40.00	36.04	35.57	32.77	32.21	33.85
10	35.03	36.43	36.45	-	-	-	-

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