

<b>Verification Curve for the Quadra 96 Position, 450µL Air Bladder Tip Shuck Pipetting Head - usually 3 samples per specified volume</b>  REV 04 - 09-15-09	Date	04/25/17
	Time	9:00 AM
	Temp °C	22.0
	Humidity %	31.0
	Barometric Pressure	29.97
	Serial #	120932-01-169
	Backlash	32
	Number of Tips Tested	96
	Tip µL	450
	Aspirate / Dispense S	3-3

**NOTE: RED NUMBERS INDICATE  
FAILURE TO MEET PQ SPECIFICATION**

ID0	Set Volume (	Tare Wt.	TTL Wt.	Sample #	ol Water (µL	Δ Vol (µL)	% Error	Average Vol. (µL)	Avg % Error	Stdevp	CV %
1	10	0.00000	0.97660	1	10.17	0.17	1.73%				
2	10	0.00000	0.95970	2	10.00	0.00	-0.03%				
3	10	0.00000	0.95140	3	9.91	-0.09	-0.90%	10.00	0.01%	0.10	1.05%
4	10	0.00000	0.95270	4	9.92	-0.08	-0.76%				
	10			5							
5	25	0.00000	2.40240	1	25.03	0.03	0.10%				
6	25	0.00000	2.40400	2	25.04	0.04	0.17%				
7	25	0.00000	2.40950	3	25.10	0.10	0.40%	25.05	0.22%	0.03	0.11%
8	25	0.00000	2.40510	4	25.05	0.05	0.21%				
	25			5							
9	50	0.00000	4.85070	1	50.53	0.53	1.06%				
10	50	0.00000	4.81180	2	50.12	0.12	0.25%				
11	50	0.00000	4.79910	3	49.99	-0.01	-0.02%	50.15	0.29%	0.23	0.46%
12	50	0.00000	4.79490	4	49.95	-0.05	-0.11%				
	50			5							
13	75	0.00000	7.26150	1	75.64	0.64	0.85%				
14	75	0.00000	7.24680	2	75.49	0.49	0.65%				
15	75	0.00000	7.22570	3	75.27	0.27	0.36%	75.47	0.62%	0.15	0.20%
	75			4							
	75			5							
16	100	0.00000	9.50050	1	98.96	-1.04	-1.04%				
17	100	0.00000	9.50450	2	99.01	-0.99	-0.99%				
18	100	0.00000	9.53680	3	99.34	-0.66	-0.66%	99.16	-0.84%	0.17	0.18%
19	100	0.00000	9.53480	4	99.32	-0.68	-0.68%				
	100			5							
20	125	0.00000	11.97530	1	124.74	-0.26	-0.21%				
21	125	0.00000	11.95510	2	124.53	-0.47	-0.37%				
22	125	0.00000	12.00720	3	125.08	0.07	0.06%	124.78	-0.17%	0.22	0.18%
	125			4							
	125			5							
23	150	0.00000	14.48590	1	150.89	0.89	0.60%				
24	150	0.00000	14.44000	2	150.42	0.42	0.28%				
25	150	0.00000	14.46750	3	150.70	0.70	0.47%	150.67	0.45%	0.20	0.13%
	150			4							
	150			5							
26	250	0.00000	24.02910	1	250.30	0.30	0.12%				
27	250	0.00000	24.05510	2	250.57	0.57	0.23%				
28	250	0.00000	24.05340	3	250.56	0.56	0.22%	250.48	0.19%	0.12	0.05%
	250			4							
	250			5							
29	350	0.00000	33.70360	1	351.08	1.08	0.31%				
30	350	0.00000	33.67190	2	350.75	0.75	0.21%				
31	350	0.00000	33.66480	3	350.68	0.68	0.19%	350.83	0.24%	0.18	0.05%
	350			4							
	350			5							
32	450	0.00000	42.91490	1	447.03	-2.97	-0.66%				
33	450	0.00000	43.00750	2	447.99	-2.01	-0.45%				
34	450	0.00000	42.92790	3	447.17	-2.83	-0.63%	447.40	-0.58%	0.43	0.10%
	450			4							
	450			5							