

Qubit quantification of digest plate

This protocol assumes that you have read and understand the manufacturer's instructions attached below. Please read the full manufacturer's instructions before using this abbreviated protocol.

This protocol is to quantify a digest plate that has been cleaned. This is not the manufacturers method of quantification and is not recommended without testing against other methods for accuracy.

1. For a full plate of 96 wells, make a working solution of HS buffer and dye by combining 19mL + 502uL of HS buffer with 98uL of HS dye. (96 wells plus 2 standards)
2. Place 190 uL of working solution into an empty well and add 10uL of standard 1.
3. Place 190 uL of working solution into an empty well and add 10uL of standard 2.
4. For the rest of the wells, add 199uL of working solution with a multichannel pipet
5. Add 1uL sample to each well
6. Vortex the plate
7. Allow the plate to incubate 2 minutes.
8. Qubit the standards
9. Qubit the wells by cutting the plate apart, being very careful to keep track of the order that the wells are analyzed.
10. Export data to usb drive by hitting the data button and then the image of the usb drive.
11. Once you have verified that you have safely stored all of the data on the computer, clear the data on the qubit machine
12. Import the qubit results to the database

```
# update parameters for the current analysis ####
# name of results file
### HAVE TO CHANGE THE MICROLITER SYMBOL TO UL INSTEAD OF THE SPECIAL CHARACTER ###
infile <- "/Volumes/USB DISK/2018 6/QUBIT_2018-06-11_11-14-AM.csv"

# date of qubit analysis
today <- Sys.Date()
# today <- "2018-05-15"

# name of plate measured
this_plate <- "D4698-D4793"

# type of plate
type <- "digest"
id <- "digest_id"

# type of analysis - HS or BR
anly <- "HS"
```

digest_id	extraction_id	quant
D4698	E0537	13.640
D4699	E0538	6.800
D4700	E0761	8.160

digest_id	extraction_id	quant
D4701	E1690	28.000
D4702	E0879	23.200
D4703	E1692	23.200
D4704	E0893	14.040
D4705	E0894	14.900
D4706	E1695	25.200
D4707	E0897	19.940
D4708	E1697	26.800
D4709	E0899	13.660
D4710	E0953	15.900
D4711	E1700	10.480
D4712	E1701	18.460
D4713	E0959	34.000
D4714	E0905	20.200
D4715	E0906	12.920
D4716	E1705	0.316
D4717	E1706	14.960
D4718	E1707	17.120
D4719	E1708	17.460
D4720	E1709	13.320
D4721	E1710	31.400
D4722	E1711	9.340
D4723	E1712	7.360
D4724	E1713	19.780
D4725	E1089	4.680
D4726	E1097	2.900
D4727	E1716	26.400
D4728	E1717	28.200
D4729	E1718	32.200
D4730	E1719	8.240
D4731	E1720	9.940
D4732	E1344	34.600
D4733	E1345	39.200
D4734	E1723	12.560
D4735	E1724	18.120
D4736	E1725	9.740
D4737	E1726	6.840
D4738	E1727	10.300
D4739	E1101	5.580
D4740	E1729	17.780
D4741	E1730	15.140
D4742	E1731	8.280
D4743	E2643	31.600
D4744	E2645	18.980
D4745	E1734	16.120
D4746	E1735	36.000
D4747	E1736	30.800
D4748	E1737	8.660
D4749	E1354	35.000
D4750	E1739	25.400
D4751	E1740	14.840
D4752	E1376	28.000

digest_id	extraction_id	quant
D4753	E1742	32.400
D4754	E1743	27.000
D4755	E2650	16.500
D4756	E2652	66.400
D4757	E2653	27.400
D4758	E2654	8.000
D4759	E1748	28.000
D4760	E1749	27.600
D4761	E1750	39.800
D4762	E1751	29.600
D4763	E1752	29.800
D4764	E2645	13.320
D4765	E1754	17.620
D4766	E1755	39.600
D4767	E1756	51.000
D4768	E2656	39.000
D4769	E2657	35.800
D4770	E1759	39.000
D4771	E1386	19.480
D4772	E1761	21.400
D4773	E1762	11.700
D4774	E1763	24.200
D4775	E2658	6.540
D4776	E1765	17.480
D4777	E1766	17.300
D4778	E1767	27.600
D4779	E1768	16.280
D4780	E2662	1.456
D4781	E1360	31.200
D4782	E1771	10.360
D4783	E1362	43.400
D4784	E1363	16.020
D4785	E1364	29.600
D4786	E2696	6.140
D4787	E2697	9.220
D4788	E1777	8.320
D4789	E2678	6.760
D4790	E1779	7.860
D4791	E1780	34.400
D4792	E2732	1.620
D4793	E1782	7.300
