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_9-33-AM.csv"

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

# name of plate measured
this_plate <- "D4614-D4697"

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

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

```
## Warning in eval(substitute(expr), envir, enclos): NAs introduced by
## coercion
```

digest_id	extraction_id	quant
D4626	E1248	18.660

digest_id	extraction_id	quant
D4627	E1249	18.400
D4628	E1251	59.600
D4636	E2290	44.000
D4652	E2308	37.200
D4668	E2324	34.200
D4674	E2330	16.380
D4626	E1248	13.120
D4627	E1249	90.200
D4628	E1251	114.000
D4636	E2290	38.600
D4652	E2308	34.400
D4668	E2324	NA
D4674	E2330	NA
D4626	E1248	NA
D4627	E1249	63.000
D4628	E1251	26.400
D4636	E2290	73.000
D4652	E2308	60.600
D4668	E2324	32.800
D4674	E2330	17.440
D4626	E1248	48.400
D4627	E1249	NA
D4628	E1251	42.400
D4636	E2290	10.180
D4652	E2308	26.600
D4668	E2324	39.000
D4674	E2330	78.000
D4626	E1248	59.200
D4627	E1249	21.400
D4628	E1251	15.800
D4636	E2290	1.466
D4652	E2308	6.320
D4668	E2324	19.700
D4674	E2330	30.800
D4626	E1248	24.200
D4627	E1249	49.600
D4628	E1251	53.800
D4636	E2290	NA
D4652	E2308	45.800
D4668	E2324	59.800
D4674	E2330	33.400
D4626	E1248	49.000
D4627	E1249	88.400
D4628	E1251	77.200
D4636	E2290	32.400
D4652	E2308	86.400
D4668	E2324	24.200
D4674	E2330	29.400
D4626	E1248	51.800
D4627	E1249	17.580
D4628	E1251	28.600
D4636	E2290	61.800

digest_id	extraction_id	quant
D4652	E2308	85.800
D4668	E2324	NA
D4674	E2330	40.200
D4626	E1248	102.000
D4627	E1249	47.400
D4628	E1251	52.200
D4636	E2290	43.400
D4652	E2308	NA
D4668	E2324	22.000
D4674	E2330	88.200
D4626	E1248	100.000
D4627	E1249	36.600
D4628	E1251	120.000
D4636	E2290	89.000
D4652	E2308	56.200
D4668	E2324	85.600
D4674	E2330	114.000
D4626	E1248	68.400
D4627	E1249	8.500
D4628	E1251	8.340
D4636	E2290	31.800
D4652	E2308	38.800
D4668	E2324	48.000
D4674	E2330	82.800
D4626	E1248	68.600
D4627	E1249	61.400
D4628	E1251	32.600
D4636	E2290	2.040
D4652	E2308	108.000
D4668	E2324	2.380
D4674	E2330	14.360