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1. Formulate Qubit Working Solution Formulation									
NOTE:	The Qubit dsDNA HS Assay is a useful tool for quantifying cfDNA samples after cfDNA Extraction , whereas the Qubit dsDNA BR Assay is more appropriate for quantifying pools after Barcoding . Please see the Qubit: dsDNA Broad Range Quantitation bench worksheet for the latter procedure.								
NOTE:	Qubit dsDNA HS Assay reagents are very sensitive to lightkeep in the dark whenever possible. Qubit Reagent and Buffer are stored at Room Temperature in the dark. Qubit Standards are stored at 4 °C in the dark.								
1.	Warm Qubit HS Standards to room temperature (15°C to 25°C) protected from light for 30 minutes.								
	Start time:	End time:							
2.	Vortex cfDNA sample tubes for 5 seconds and centrifuge for 5 - 10 seconds.								
3.	Vortex Qubit dsDNA HS Buffer and Qubit dsDNA HS Standards 1 and 2.								
4.	Label two Qubit assay tubes for standards "S1" and "S2."								
5.	Label each Qubit sample tube <sample id=""></sample>								
6.	Prepare Qubit Working Solution in a LoBind 1.5 mL microcentrifuge tube according to the following formulation:								
	Reagent	μL/sample	x	Total # of samples (incl. 2 standards)		+ 20% O\	/erage		Total μL
	Qubit dsDNA HS Buffer	<mark>195-199</mark>	<		<	1 0	,	_	
	Qubit dsDNA HS Reagent	<mark>1-5</mark>	^		×	1.2	-	-	
7.	Vortex Qubit Working Solution for 5 seconds and centrifuge for 5 - 10 seconds.								

2. Prepare Qubit Standards and Samples							
1.	Dispense 190 μL of Qubit Working Solution into each Qubit standard tube.						
2.	Dispense 199 µL of Qubit Working Solution to each Qubit sample tube.						
	Dispense 10 µL of Qubit dsDI	Dispense 10 μ L of Qubit dsDNA HS Standard 1 into the S1 tube and 10 μ L of Standard 2 into the S2					
3.	tube.						
4.	Dispense 1 µL of each sample to its respective Qubit sample tube.						
NOTE:	Ensure that bubbles are not introduced to any of the standards or samples.						
NOTE:	Hold the Qubit assay tubes from the top, as temperature fluctuations will affect the fluorescence measurements.						
5.	Vortex for 5 seconds, then centrifuge for 5 to 10 seconds.						
6.	Confirm that each Qubit standard/sample tube is free of bubbles and particulate, or if present, remove them.						
7.	Incubate at room temperature (15°C to 25°C) in the dark for 5 minutes.						
	Start time:		End time:				
NOTE:	Do not store Qubit assay samples or standards for more than 3 hours.						

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3. Measuring Qubit Standards and Samples								
1.	Turn on Qubit (eqpt. ID:), press the Home button, and select the substance you wish to							
	measure (e.g. DNA).							
2.	Select the dsDNA HS quantitation kit.							
3.	Select Yes to Read New Standards?							
4.	Load the S1 tube, close t	he lid and press Rea	ad Sample; repeat	for Standard 2.				
5.	Press Check Standards a	nd record results fo	r each standard or	the chart below				
6.	Select No to Read New S	Standards?						
7.	Load the <sample id=""> tu</sample>	be, close the lid and	l press Read Samp	le.				
8.	Press Stock Concentration, adjust Sample Volume to 1 μL; adjust Concentration to ng/μL, and record							
	result on the chart below.							
	Sample ID:	Stock Conc.	Sample ID:	Stock Conc.				
		(8/ μ=/		(8/ №=/				
	Std 1							
	Std 2							

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Qubit 2.0 Screen Examples

- After inserting a sample tube and clicking "Read Next Sample", below is what the Qubit screen will look like. This is the Raw Qubit value (circled in orange)
- To calculate the ng/µL stock concentration click "Calculate Stock Conc." (circled in green)



- After clicking "Calculate Stock Conc.", the screen will look as below
- Adjust "Volume of Sample Used" (circled in red) to 1 µL. 1 µL should line up the red dashes on the sides.
- Select ng/µL as the units (circled in green)
- Screen will now display your ng/µL concentration (circled in yellow)



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Qubit 3.0 Screen Examples

- Before inserting a sample, below is what the screen will look like
- Select 1 µL as Sample Volume (green box)
- Select ng/µL as Output Sample Units (yellow box)
- Insert Sample tube and Select "Read tube"



 Qubit concentration in ng/µL will be shown in the bottom circle (red box)

