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Qubit4 Fluorometer Protocol: Invitrogen dsDNA HS Assay Kit (REF 32854)

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Protocol status: Working

We use this protocol and it's working

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Abstract

Qubit4 Fluorometer Protocol: Invitrogen dsDNA HS Assay Kit (REF 32854); Qubit4 protocol used to test dsDNA concentrations in samples.

Troubleshooting

Qubit4 Fluorometer Protocol: Invitrogen dsDNA HS Assay Kit (REF 32854)

- 1 Set up two assay tubes (Qubit assay tubes REF Q32856) for the standards (Standard #1 and Standard #2) and one assay tube for each sample.
- 1.1 **Preparing working solution:**
Dilute the Qubit reagent 1:200 in Qubit buffer:  1 μL of **Qubit dsDNA HS Reagent *200X** (multiplied by number of samples + one extra sample) for every  199 μL of **Qubit dsDNA HS Buffer** (multiplied by number of samples + one extra sample). Make enough mix for the total number of samples including Standard #1 and Standard #2.
- 2 **Prepare standards** separately (Standard #1 and Standard #2):  190 μL of working solution and  10 μL of standard, to a final volume of  200 μL for each standard.
Tip: Slowly mix up and down with pipette tip.
- 3 **Prepare samples:**  198 μL of working solution and  2 μL of extracted DNA, to a final volume of  200 μL for each sample.
Tip: When pipetting DNA, make sure to mix slowly with pipette tip to prevent shearing. Slowly mix this mixture up and down with pipette tip as well.
- 4 Vortex all tubes and centrifuge briefly. Remove any bubbles before inserting tubes into the Qubit4 Fluorometer.
- 5 **Setting up the Qubit4 Fluorometer:** (a) select dsDNA, (b) choose dsDNA HS.
- 6 Insert standard tubes into the Qubit Fluorometer and take readings. Note: make sure that standard readings are accurate before moving on to the samples. (Standard #1: low, Standard #2: high). Specify the volume of DNA used and then take readings of your samples.