Bench sheet · EnGeL-MOLB-QUBIT

Double-stranded DNA concentration with the Qubit 4 fluorometer (dsDNA HS and BR assays) · version 1.2.0 (2026-11-20). Full protocol: EnGeL-MOLB-QUBIT. Tick each step when done; write deviations in Notes.

Date	
Operator	
Plate ID / samples	
Qubit dsDNA HS or BR kit lot	

Before starting

☐	No.	Step
☐	•	Use filter tips.
☐	•	Use only Qubit assay tubes, and label them on the lid, never on the side.

Measurement

☐	No.	Step
☐	1	Prepare the two standards in Qubit assay tubes: 190 µL working solution + 10 µL DNA standard #1; 190 µL working solution + 10 µL DNA standard #2.
☐	2	For each sample, prepare a Qubit assay tube with 199 µL working solution + 1 µL sample.
☐	3	Vortex vigorously for 3–5 s without creating bubbles.
☐	4	Incubate all tubes at room temperature for 2 min.
☐	5	On the Home screen, touch *dsDNA*, select *dsDNA High Sensitivity* (or *dsDNA Broad Range* with the BR kit) and touch *Read standards*.
☐	6	Insert Standard #1, close the lid and touch *Read standard*; when the reading is complete (c. 3 s), remove it. Repeat with Standard #2.
☐	7	Touch *Run samples*, select the sample volume (1 µL) and the output units.
☐	8	Insert each sample tube, close the lid and select *Read tube*; remove the tube when the reading is complete (c. 3 s). Repeat for all samples.

After finishing

☐	No.	Step
☐	•	Clean the bench with 70% ethanol.
☐	•	Empty the small bench bin into the right waste bin.
☐	•	Wash your hands.
☐	•	Turn off equipment and lights.
☐	•	Lock doors, fridge and freezer.

Notes / deviations
