SEQREADY

Sample QC Cheat Sheet

Pass QC the first time. Common starting points; always check your provider's own requirements.

01 Measure the right way

Concentration: fluorometer (Qubit or similar), not only NanoDrop, which often overestimates DNA. **Purity:** NanoDrop ratios. **Integrity:** gel, TapeStation, Bioanalyzer or Fragment Analyzer.

02 Common targets

Measure	DNA	RNA
A260/280	about 1.8 to 2.0	about 1.9 to 2.1
A260/230	about 1.8 to 2.2	about 1.8 to 2.2
Integrity	Sharp high-molecular-weight band, DIN about 7+	RIN 7+ for poly-A RNA-seq (8+ safer); FFPE: DV200
Long-read DNA	Mostly above about 20 to 50 kb, no vortexing	Not applicable

03 Before you ship

- [ ] Send 1.5 to 2 times the minimum amount
- [ ] DNA in 10 mM Tris or kit elution buffer
- [ ] RNA in nuclease-free water, DNase-treated
- [ ] Short IDs, durable labels, matching the sample sheet
- [ ] Enough dry ice for 2 to 3 extra days
- [ ] Ship Monday to Wednesday, customs documents included

04 Top 5 reasons samples fail

1. Too low when re-measured by fluorometry
2. Degraded RNA (low RIN)
3. Extraction leftovers (low A260/230)
4. Labels don't match the sample sheet
5. Thawed in transit

THE FULL KIT

Your First Sequencing Project, the Right Way

The SeqReady NGS Project Starter Kit: method choice, experimental design, sample prep, quote comparison sheet, budget calculator, data delivery checklist and email templates. By Eric A., MSc Molecular Biology.