**General Guidelines: Whole Plasmid Sequencing**

**Sample Extraction and Submission**

1. Follow established protocols (see published literature) for plasmid extraction.
2. Final purified plasmids should be submitted in either elution buffer (10 mM Tris, pH 8.5) or nuclease-free water.
3. Whenever possible, avoid buffers containing EDTA (e.g., TE or AE).
4. For PCR samples (≥1 kb), also consult published protocols for PCR purification.
5. If the plasmid exceeds 25 kb, please contact us at tx@quintarabio.com before submission.

**Quality Requirements**

1. OD260**/280 Ratio**: ≥ 1.8 and ≤ 1.95
2. Measure **Method**: Nanodrop measured concentration might not be accurate. Dye based methods like Qubit are widely used.
3. Concentration: 30–200 ng/µl
4. Minimum **Volume**:

10 µl if concentration is 100 ng/µl and above
20 µl if concentration is less than 100 ng/µl

**Unacceptable Conditions**

Samples **must not** contain:

- RNA (RNase treatment is recommended)
- Denaturants (guanidinium salts, phenol, etc.) or detergents (SDS, Triton-X100, etc.)
- Residual contaminants (heme, humic acid, polyphenols, etc.)
- Insoluble material, discoloration, or cloudiness
- Multiple plasmid species or non-clonal plasmid mixtures (samples must contain only a single clonal plasmid)
- Mixtures of molecular species (any resulting data will be mixed and is at your own risk)

**Important Reminders**

- Our economical pricing and quick turnaround times do **not** include DNA extraction or quality control (QC).
- Verify that your samples meet these criteria **before** shipping; high-quality data cannot be guaranteed otherwise.
- We do **not** provide re-runs or sample return services.