Recommendations for Accurate Gel Quantification

Protocol

This protocol is for the Reommendations for Accurate Gel Quanitification

- Always use the same DNA loading dye (supplied with the DNA ladder/marker) for both the sample DNA and the ladder/marker DNA.
- Always compare the sample band with the ladder band of the closest size.
- If possible, adjust the concentration of the sample to approximately equalize it with the amount of DNA in the nearest band.
- dNTPs, oligonucleotides, genomic DNA, RNA, NTPs or buffer components can interfere with spectrophotometrical measurements and lead to inaccurate quantification of sample DNA. In these cases, it is best to rely on gel quantification data.
- For the most accurate quantification, use video-densitometry analysis.

Reference

1. Sambrook, J., et al., Molecular Cloning. *A Laboratory Manual*, Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y., 12.89, 5.42, 2001.

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