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RNA concentration measurement and non-denaturing agarose gel electrophoresis

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We use this protocol and it's working

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Abstract

RNA concentration measurement and non-denaturing agarose gel electrophoresis

Materials

MATERIALS

 NanoDrop™ 2000c Spectrophotometer Thermo Fisher Scientific Catalog #ND-2000C

- 1
 - Allow RNA to thaw on ice

- 2
 - Determine RNA concentration using a NanoDrop™ 2000/2000c Spectrophotometers (Nucleic Acids – RNA mode, 2 µL sample size)

- 3
 - Determine RNA purity from protein contamination by assuring 260/280 ratio is ~2.0

- 4
 - Determine RNA integrity and purity from genomic DNA contamination by electrophoresis. Load 400 ng RNA onto a 1% agarose gel with ethidium bromide (EtBr) in TBE buffer and run at 70 V until the dye line is approximately 75-80% of the way down the gel.

- 5
 - Visualize and document using a gel UV imaging/documentation system