**QuantiFluor® RNA System Technical Manual**

<http://www.promega.com/~/media/files/resources/protocols/technical%20manuals/101/quantus%20fluorometer%20operating%20manual.pdf>

**Prepare the solutions**

 Thaw the QuantiFluor® RNA Dye at room temperature in a drawer to protect it from light. Thaw the RNA Standard on ice.

 Prepare (or obtain) **1X TE buffer** by diluting the 20X TE Buffer 20-fold with nuclease-free water. For example, add 1ml of 20X TE Buffer to 19ml of Nuclease-Free Water, and mix.

 Dilute the **QuantiFluor® RNA Dye** 1:1000 using 1X TE buffer. This is your working dye solution. For example, add 1.5μl of QuantiFluor® RNA Dye to 1,498.5μl of 1X TE buffer then mix. Note: 1.5mL is a sufficient volume to process 14 samples or standards.

 Dilute the **RNA Standard** 1:1000 using 1X TE buffer. This is your working standard solution. For example, add 1.5μl of RNA Standard to 1,498.5μl of 1X TE buffer then mix. **Note:** This only has to be done once and was already done on June 11, 2016.

**Prepare the samples**

 Obtain and label a 0.5ml quantification tube for each sample and standard

 Add 95μl 1X TE Buffer to each tube

 Add 100μl working dye solution to each tube

 Add 5μl of standard to the appropriate tube. Pipette up and down to mix

 Incubate assays for 5 minutes at room temperature, protected from light

 Place in the QuantusTM Fluorometer and measure the fluorescence.

 You can open the corresponding Maxwell® RSC Instrument results workshop to have the data automatically populate and Excell spreadsheet with the sample layout.