



Pooling of RNA or cDNA for Quantitative Gene Expression Validation Controls

1 Pooling cDNA

- 1.1. The amount of RNA samples to create the pool for synthesized cDNA will vary depending on sample population.
 - 1.1.1. If 1 - 25 RNA samples, use all samples available to create one pool.
 - 1.1.2. If 26 – 99 RNA samples, use 50% of the sample population.
 - 1.1.3. If 100 or greater RNA samples, use 25 % of sample population.
- 1.2. Synthesize pooled cDNA using equal amounts of RNA for each sample.
 - 1.2.1. Using equal amounts for each RNA, dispense into a sealable, screw-top, or snap-top tube.
 - 1.2.2. Synthesize and make sure the final RNA pool amount should range from 100 to 1000 ng; however, amounts used for each RNA need to be equal.
 - 1.2.3. Higher amounts of RNA used will yield higher amounts of cDNA of interest.
- 1.3. If only cDNA is available, please discuss prior to study agreement.
- 1.4. For sample handling, shipping, and file specifications, refer to *cDNA Specifications for QGE* for more details.

2. Pooling RNA

- 2.1. The amount of RNA samples to create one pool will vary depending on sample population.
 - 2.1.1. If 1 - 25 RNA samples, use all samples available to create one pool.
 - 2.1.2. If 26 – 99 RNA samples, use 50% of the sample population.
 - 2.1.3. If 100 or greater RNA samples, use 25 % of sample population.
- 2.2. Using equal amounts for each RNA, dispense into a sealable, screw-top, or snap-top tube.
 - 2.2.1. Make sure the final RNA pool concentration should range from 100 to 1000 ng.
 - 2.2.2. For sample handling, shipping, and file specifications, refer to *RNA Specifications for QGE* for more details.