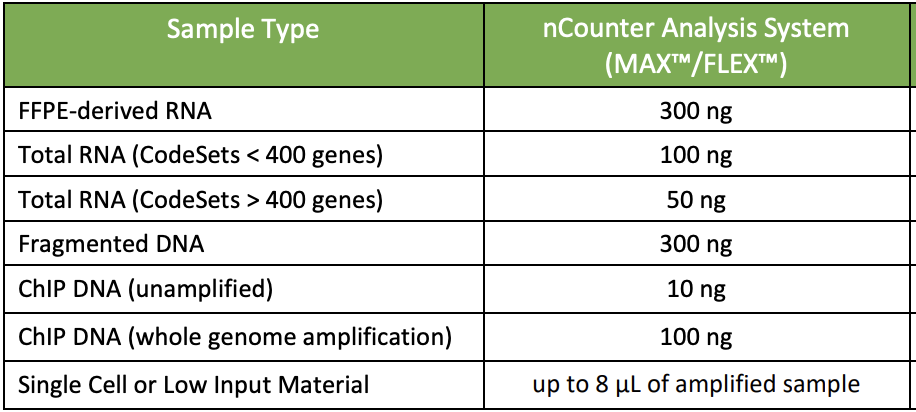
**Test Description:** NanoString nCounter® Analysis System. This system uses molecular "barcodes" and single-molecule imaging to profile up to 800 mRNAs, microRNAs, or DNA targets simultaneously with high sensitivity and precision, without any reverse transcription or amplification.

**Species:** all- researcher should work with nanostring to provide off the shelf or custom gene panels[**https://nanostring.com/products/ncounter-assays-panels/**](https://nanostring.com/products/ncounter-assays-panels/)

**Samples:** For RNA samples we recommend at least 100ng of RNA samples, though samples >20ng can be run. Recommended spectrophotometer 260/280 ratio is 1.7-2.0. Nanostring recommends that 50% of the samples be greater than 200 nucleotides- modifying input RNA to meet these criteria. Sample fragmentation can be assessed via tapestation analysis for an additional charge. Below is a generalized chart of needed sample input for a variety of nanostring assays.

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**Expected results:**

**Gene Expression**  
Limit of Detection:  
•  0.5fM spike-in control (~1 copy per cell); 90% of the time  
Fold-change Sensitivity:  
•  >1.5 fold (>5 copies per cell)  
•  >2 fold change (>1 copy per cell)  
**miRNA Assay**  
Limit of Detection:  
•  ≤ 0.5fM (~10 copies per cell)  
Fold-change Sensitivity:  
• > 2 fold change  
**Copy Number Variation**Reproducibility:  
•  99%  
Number of Copies Detected:  
•  0-4, multiallelic  
**miRGE Assays**Limits of Detection:  
•  For miRNA: >2.5 copies per cell copy per cell  
•  For mRNA: 1 copy per cell  
Fold-change Sensitivity:  
•  >2 fold change

**Turnaround Time:** Depends on assay

**Please contact the EPF for a submission form and sample handling instructions**