

**Genomics Microarray Service**  
**Genomics Microarray Sample Prep**

**Starting material (Eukaryotic):** High Quality total RNA (5.0 $\mu$ g – 40.0 $\mu$ g)

**cDNA synthesis protocol:** Affymetrix recommends starting with a minimum of 5  $\mu$ g of total RNA at a minimum concentration of 0.5  $\mu$ g/ $\mu$ L.

**Determining RNA Concentration:** After purification the RNA concentration is determined by absorbance at 260nm on a spectrophotometer (one absorbance unit = 40  $\mu$ g/mL RNA) The A260/A280 ratio should be approximately 2.0, with ranges between 1.8 to 2.1 considered acceptable.