

- ize on a UV lightbox. Compare the spotted sample of unknown concentration with the standards to determine the concentration of the cDNA.
8. Since the cDNA is heavily methylated, introduction into a host with an McrA, McrCB, hsdSMR, Mrr phenotype would be subject to digestion by these restriction systems. Therefore, the choice of packaging extract and an *E. coli* host strain is crucial (24–29).
 9. Since λ phage can adhere to dead as well as to viable cells, the lower temperature prevents the bacteria from overgrowing.
 10. Most cDNA vectors have color selection by Isopropyl- β -D-thio-galactopyranoside (IPTG) and 5-bromo-4-chloro-3-indoyl- β -D-galactopyranoside (X-gal). These components can be added to the top agarose before plating to produce the background blue color. Use 15 μ L of 0.5M IPTG (in water) and 50 μ L of X-gal at 250 mg/mL in dimethylformamide.

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