

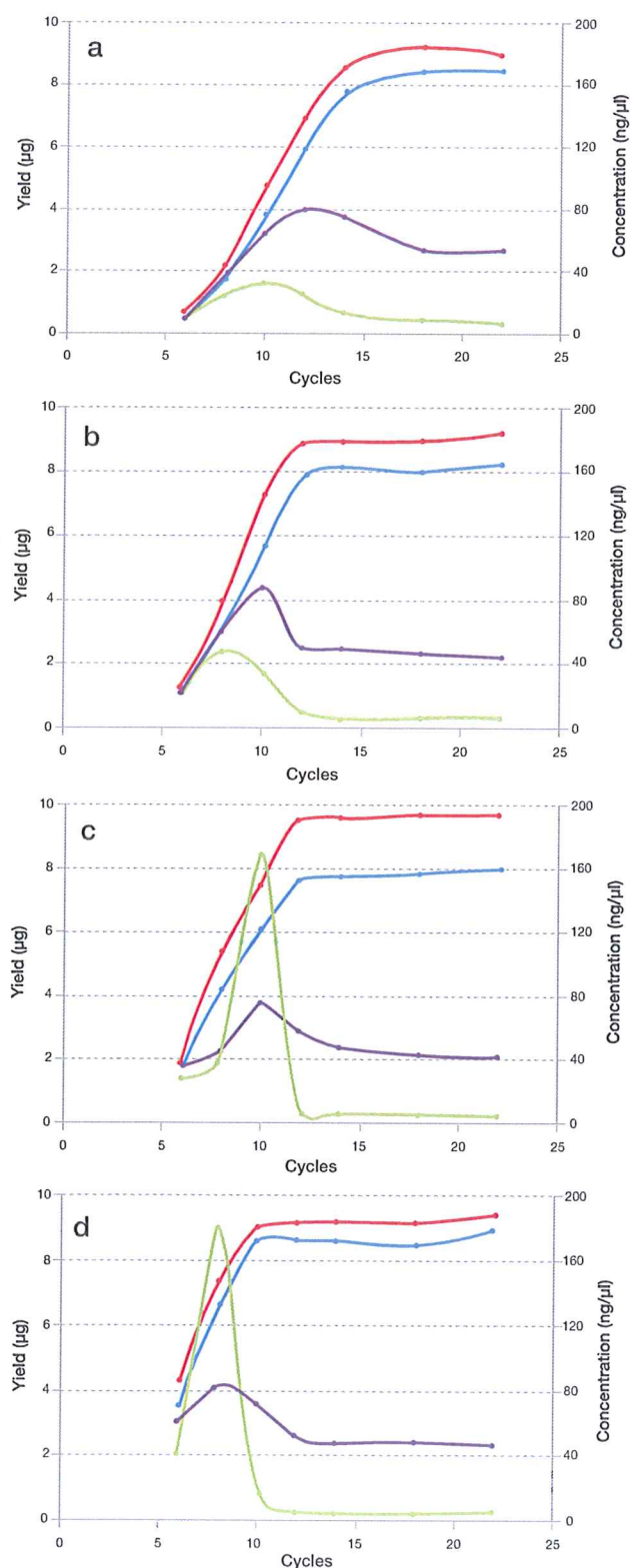


Figure 12. Yield of PCR amplified libraries as determined by four quantification methods. Library amplification was performed with different numbers of PCR cycles according to the recommended protocol, using 25 ng (a), 50 ng (b), 100 ng (c), or 250 ng (d) of template library DNA. Reactions were cleaned up using one volume of AMPure® XP beads and eluted in 50 µl. Amplified library concentrations were determined by qPCR (KAPA Library Quantification Kit, red), NanoDrop™ (blue), PicoGreen® (purple), or Bioanalyzer (green).

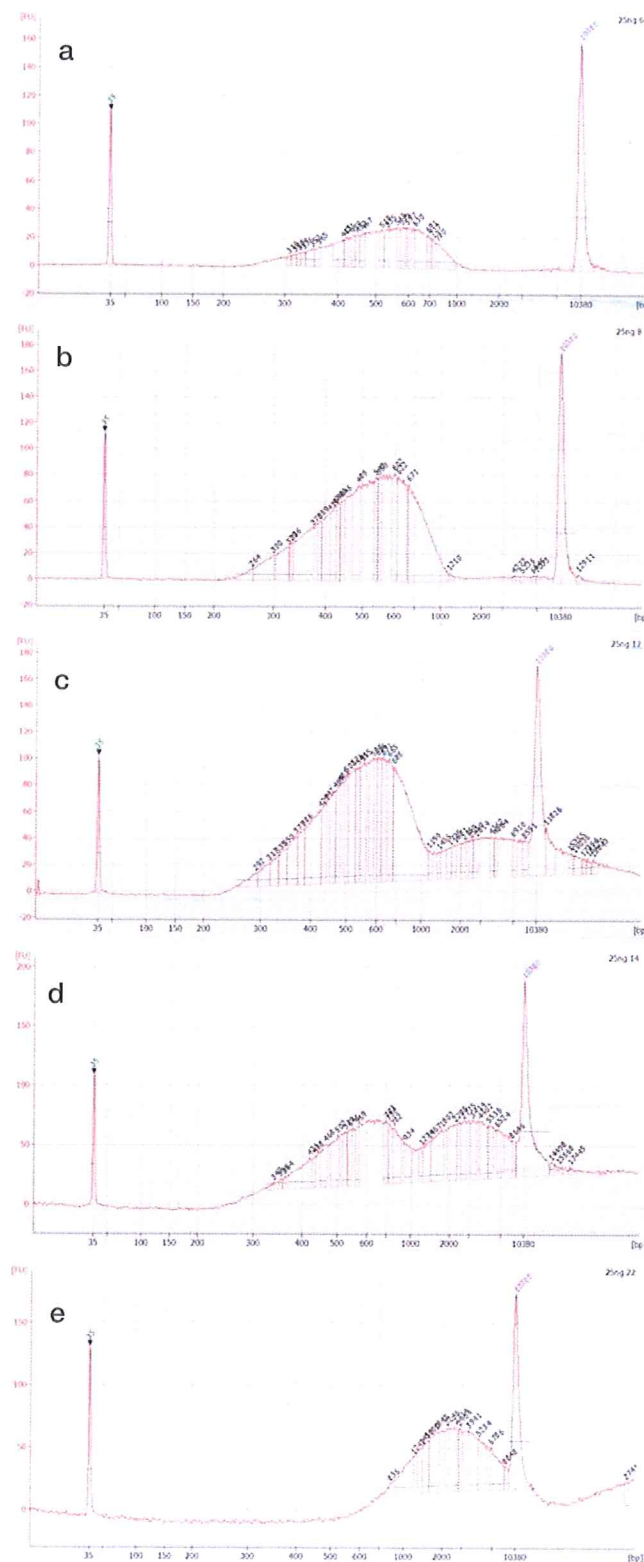


Figure 13. Excessive library amplification leads to high molecular weight DNA heteroduplexes, or "daisy-chains". Library amplification reactions using 25 ng of template DNA were cleaned up using one volume of AMPure® XP beads after library amplification for 6 cycles (a), 8 cycles (b), 12 cycles (c), 14 cycles (d) or 22 cycles (e). The amplified and cleaned up libraries were analysed using an Agilent Bioanalyzer DNA Kit.