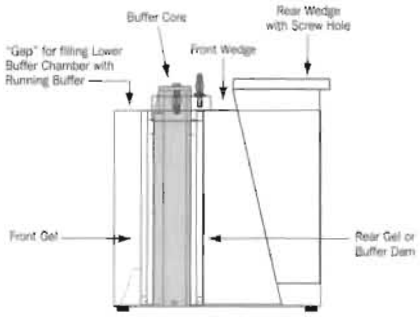
QuickPoint™ Rapid DNA Sequencing System Quick Reference Card

1. Prepare samples according to manufacturer's recommended protocol with the following modifications:
   a. If using Sequenase™, use 1µl of $Mn2^+$ buffer in the labeling reaction.
   b. Dilute 6µl final sample reaction with 14µl QuickPoint™ (QP) Sample Loading Buffer.
2. Make two dilutions of the 50X QP Running Buffer to the following concentrations:
   a. 65ml of 5X QP Running Buffer (10 fold dilution)
   b. 750ml of 1X QP Running Buffer (50 fold dilution)
3. Heat 750ml of 1X QP Running Buffer to 50°C–60°C.
4. Assemble QuickPoint Rapid DNA Sequencing Cell with:
   a. gel(s) with wells that have been thoroughly washed with water.
   b. wedges
   c. buffer dam if only one gel
5. Fill Sequencing Cell outer chamber (anode) with heated (50°C–60°C) 1X QP Running Buffer. Press down firmly on rear wedge.
6. Fill Sequencing Cell inner chamber (cathode) with 5X QP Running Buffer.
7. Place lid on Sequencing Cell and plug electrode leads into power supply. Turn ON power supply.
8. Pre-run gel(s) at 1200 volts constant for 5 minutes.

QUICKPOINT SEQUENCING CELL – ASSEMBLED



SIDE VIEW

9. Heat samples for 2 minutes at 72°C. Place on ice.
10. After pre-run, wash wells with upper buffer (5X QP Running Buffer).
11. Load 0.3µl to 0.5µl of prepared samples into wells of gel(s), using a P-2 pipettor and 10µl pipette tips.

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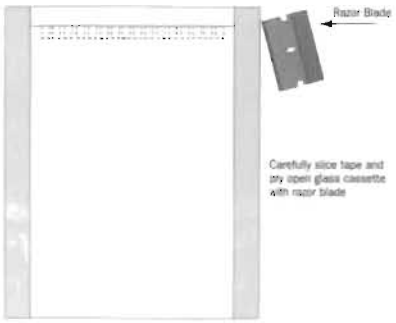
12. Replace lid and run gel(s) for approximately 10 minutes (or until desired read length is obtained) at 1200 volts constant.
13. Turn OFF power supply and remove gel(s).
14. Slice open tape on sides of the glass cassette(s) with a razor blade and pry open cassette(s).
15. Submerge gel(s) attached to notched glass plate(s) in fresh Fix Solution for 10 minutes.
16. Wash gel(s)/glass plate(s) in fresh DI water for 10 minutes followed by a brief rinse with tap water.

OPENING THE GLASS CASSETTE



17. Dry gel(s)/glass plate(s) in 80°C oven for 20 minutes, or alternatively, in the microwave on half power for 2–4 minutes (determined by results from 30 second interval testing).
18. Expose gel(s)/glass plate(s), gel side up, to X-ray film for 2 hours to overnight depending on isotope used and signal strength.

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