

Electrophoresis Protocol

Gel: 1% agar content, 40 mL

Running on 140 Volt for 30 minutes.

EB Post Staining

Data Comparison	Reaction Content	Total Mixture
1. 1kb Ladder	1µL kb Ladder + 1µL loading dye + 8µL ddH ₂ O	10µL
2. Original Template DNA	2µL Original Template + 1µL loading dye + 7 ddH ₂ O	10µL
3. Digested RFP-PSB1C3	5µL Digested RFP-PFB1C3 + 1µL loading dye + 4µL ddH ₂ O	10µL
4. ddH ₂ O (Negative Control)	5µL + 5µL loading dye	10µL
5. Liquid PCR	5µL + 5µL loading dye	10µL
6. Colony PCR	5µL + 5µL loading dye	10µL

Loading Dye is 50X thus only 1/50 should be added to total Reaction Mixture.