VIII. APPENDIX

1. 50X Tris-acetate buffer (TAE)
   Tris base 242 gm
   Glacial acetic acid 57.1 ml
   0.5 M EDTA, pH 8.0 100 ml
   Distilled water to 1 liter

2. 50X Tris-borate (TBE)
   Tris base 108 gm
   Boric acid 55 gm
   0.5 M EDTA, pH 8.0 40 ml
   Distilled water to 1 liter

3. Loading buffer 6X
   Bromphenol blue 0.25 %
   Glyceral 30 %

4. Ethidium bromide (10mg/ml)
   Ethidium bromide 1.0 gm
   Distilled water 100 ml

5. 2% Agarose gel
   Agarose 2.0 gm
   0.5X TAE 100 ml
6. 20% polyacrylamide gel

Acrylamide  5 gm
N'-N'-bis-acrylamide  5 gm
- Dissolve in distilled water and fill up to 500 ml
- Sterilize by filtration

7. 6% polyacrylamide gel

20% polyacrylamide (stock)  3 ml
10X TBE Buffer  1 ml
Distilled water  9 ml
TEMED  3 μl
10% Ammonium persulphate  100 μl

8. 1Kb ladder marker

Stock 1 Kb  5 μl
6X Loading  10 μl
Distilled water  45 μl

9. 50Kb ladder marker

Stock 50 bp  5 μl
6X Loading  10 μl
Distilled water  45 μl

10. 10X PCR buffer

KCl  500 mM
Tris-HCL (pH 8.3)  100 mM
11. MgCl₂ 50 mM

MgCl₂  
Distilled water  100 ml.

12. 3M Sodium acetate (NaOAc) pH 4.6

Sodium acetate  4.08 gm
- Dissolve in distilled water e.q.
- Adjust to pH 4.6 by 1 N HCl
- Adjust the final volume with distilled water to 10 ml

13. LB Medium/liter

Tryptone  10 gm
Yeast extract  5 gm
NaCl  10 gm
Distilled water  to 1 liter
- Adjust pH to 7.0
- For agar plate, add 15 gm/liter agar.
IX. CURRICULUM VITAE

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