# APPENDIX A

## SEQUENCE DATA

0 5' CACACACACACACACACTGGACGCATATAATCAAGCATACAAGAATAT

50 GATCAAGCATACAAAATGATACATGTAAGTGACATATAACAACATGTA

100 ACCAATCATACAATGATCATGATGCATCCCACAACAACAACCGCAACT

150 TCCACATGGAGACACCACTACAACCATGATCAACACTAGACATTGTAA

200 TAGGCAGATGGAATGCAAGCGTAAGAGGCATACATGAAACCAACATGC

250 ATTCATTAACAATGCACACAACCCATTCAGTTCGAGGGGTGAACCATG

300 CTTCGATATGAATCTGTAACACCCTCCGCCCACATCTACCCAAGTAAC

350 CAACCAACTGCGGTAAACATGCGACGAGAGGATACCATGATGAGATTC

400 AACCTCCTAGGTGACCTTAAGGAAATGGAATGAAAGGAAAAACAACAT

450 ACAGACCTTCCACATCAGCTATAGCACCCTTGACCTCGTCC 3'

**Figure A-1. RAMs Sequence 1.** Development of primers JD1-AMO and JD2-AMO. Where: represents the $CA_8$ RAMs primer sequence; represents the microsatellite sequences; represents the JD1-AMO forward primer sequence; represents the JD1-AMO reverse primer sequence; represents the JD2-AMO forward primer sequence; and represents the JD2-AMO reverse primer sequence.

0 5' CACACACACACACACATAAATTTAATATTTTTGGGGTTATAATGTAAT

50 GTTATGTTGACATGACAACATCTCGGCCTCATATTTTTGTTTTAATGT

100 AACATTATGTTTTTTTTTTCTCTATAAAAGCTATTTCGTATTGAACTA

150 GTAAACATGATAATATTACATGAGGTAGGCGGCTGCAGAAGCCCGCAC

200 TTGCTAATACTTTACAAAATTTCCCCATTACAGAAGAGATGGGGAATC

250 TCAACAAAACTAACAGCCAAATCAATTGACGTTACAAACATACTGAGA

300 GAGGAAGAACTGAAAATAAGCATATGACCGGAGCTGAAGAACCCTTGA

350 CCTCGTACCCGCTGGTT 3'

**Figure A-2. RAMs Sequence 2.** Development of primers JD3-AMO. Where: represents the $CA_8$ RAMs primer sequence; represents the microsatellite sequences; represents the JD3-AMO forward primer sequence; and represents the JD3-AMO reverse primer sequence.

0 5' CACACACACACACACAAAAAAAACTATAAATTTTAATAAAACAAATCT

50 TTTTTTTTTTGTAGGCAAAGGTAGTGCATCTCATTTTCTATTAACATA

100 TCAGAAAATTACATCAAAATTAGTGGACCAGCTACCCGCCCACCAGGG

150 GAAACCGAGTAGGGTATCCACCTAAAGTTTTTAACACCATACCAAAAA

200 AAGAAGTCACGTAGTCTCTTTTTCCTGGCTAAATAGACATTACAGTCC

250 TTCCCTGGTCTAATTCTAGTGATATGCATATATAAACTGTCCATTACA

300 AAAAGAGGGAAGCTGCCTAAAGTATCTAAACACCGCAAAATCATCAGA

350 AGGGAGACAAGAACTAAAACTATTCAACAGCATTGGCAAAGATTGGAG

400 AGTCCTCCTTGGAGCTCCTCTGCTGGCTGGCTTGAGCAATTTCTGAAT

450 CTCTTCCAGCTGCTT 3'

**Figure A-3. RAMs Sequence 3.** Development of primers JD4-AMO and JD9-AMO. Where: ▭ represents the $CA_8$ RAMs primer sequence; ▭ represents the microsatellite sequences; ▭ represents the JD4-AMO forward primer sequence; ▭ represents the JD4-AMO reverse primer sequence; ▭ represents the JD9.1-AMO forward primer sequence; ▭ represents the JD9.2-AMO forward primer sequence; and ▭ represents the JD9-AMO reverse primer sequence.

0 5' CACACACACACACACATAGCAAAACAAGATAATCAAGGAGTTCACCCA

50 ACACTCCTGGGCTACATCTCCTGGTCCAACCTTCAGTAGTGACCTCTC

100 TATTATGTCTTTAAGAATATAATTTTACAAAAGAGAGCTCAATTTGAG

150 TCTCACACAACAGATACAAAACAACAAGGCTTTACTTGGATACCCCAA

200 GTCTTTCTGAGTACACAAACTCTCCTCACTGACTCTCTGTCTCCGTTT

250 TCTCTCTGTCTCAACAGTGCTTGCCTCTGTCTCTATCATTCAGTGGCT

300 TTTAAGCCAATTGGCGTTGTCCTGCTCGTTTCCTCTTCTGGGCTTTCT

350 GGCCCTTGACCTCGTCCCGCTGGTT 3'

**Figure A-4. RAMs Sequence 4.** Development of primers JD5-AMO. Where: ▭ represents the $CA_8$ RAMs primer sequence; ▭ represents the microsatellite sequences; ▭ represents the JD5-AMO forward primer sequence; and ▭ represents the JD5-AMO reverse primer sequence.

0 5' CACACACACACACACACACCATATAAAATCTGTATGAATGATTAAA

50 TGTGAaAATACATTGATTTTGTAAATGATTGACACATCTTCCAAATTG

100 GAAATATGGGTATGTTTTAGGAATATTTAGTGTTCTTGGACAAACGCC

150 TAACCCTCTAGATCTAATAGCAGGTCTAGAAACAACAAACAAAGTAAT

200 CTCAACCTTTTCTATAATCAATAGATAAAACAAGAGAGAAGAGAAACC

250 TACTTGTAGTTTTCGCCAGCGCCTTGTCTCCCTTGACCTCGTCCCGCT

300 GGTT 3'

**Figure A-5. RAMs Sequence 5.** Development of primers JD6-AMO. Where: represents the $CA_8$ RAMs primer sequence; represents the microsatellite sequences; represents the JD4-AMO forward primer sequence; and represents the JD4-AMO reverse primer sequence.

0 5'CACACACACACACACACATAACACAGCAAGATAATCAAGGAGTTCACC

50 CAAGACTCCTGGGCTACATCTCCTAGTCCAGCCTTCAGTGGTGACCTC

100 TCTATTATGTCTTCAAGAGCGGAGTTTTACAAAAGTGAGCTCAATTTG

150 AGTCTCACACAATAGATACAAAATAACAAGGCTTTACTTGGATCCCCC

200 AAGTCTTTCTGAGTACACAGATTCTCCTCACTAACTCTCTATCTCAGC

250 ACTTCTTGTCCCTGTCTCTGTCATTCTACGGCTTTTAAGCCAATGGGT

300 GTTGTCTGTTCGTTTCCTCTTTGGGTTCTCTGGCCCTTGACCTCGTCC

350 CGCTGGTT 3'

**Figure A-6. RAMs Sequence 6.** Development of primers JD7-AMO. Where: represents the $CA_8$ RAMs primer sequence; represents the microsatellite sequences; represents the JD7.1-AMO forward primer sequence; represents the JD7.2-AMO forward primer sequence; and represents the JD7-AMO reverse primer sequence.

```
0    CACACACACACACACATGGACGCATATAATCAAGCATACAAGAATATG
50   ATCAAGCATACAAAATGATACATGTAAGTGACATATAACAACATGTAA
100  CCAATCATACAATGATCATGATGCATCCCACAACAACAACCGCAACTT
150  CCACATGGAGACACCACTACAACCATGATCAACACTAGACATTGTAAT
200  AGGCAGATGGAATGCAAGCGTAAGAGGCATACATGAAACCAACATGCAT
250  TCATTAACAATGCACACAACCCATTCAGTTCGAGGGGTGAACCATGCT
300  TCGATATGAATCTGTAACACCCTCCGCCCACATCTACCCAAGTAACCA
350  ACCAACTGCGGTAAACATGCGACGAGAGGATACCATGATGAGATTCAA
400  CCTCCTAGGTGACCTTAAGGNAATGGAATGAAAGGAAAAACAACATAC
450  AGACCTTCCACATCAGCTATAGCACCCTTGACCTCGTCCCGCTGGTT
```

**Figure A-7. RAMs Sequence 7.** Development of primers JD8-AMO. Where: ▭ represents the $CA_8$ RAMs primer sequence; ▭ represents the microsatellite sequences; ▭ represents the JD8-AMO forward primer sequence; ▭ represents the JD8.1-AMO reverse primer sequence; and ▭ represents the JD8.2-AMO reverse primer sequence.

```
0    5'CACACACACACACACAGAGAATTGCAACTAGTTGCAGCAGCGCGAAAG
50   GCGTCATTGGTTGTCTGAGGGCCTCCTGCATTTCTTTCAATCGACATT
100  CGGTGAACGGAATGATGGAAACAAGAAAGAAGGCTCGGCTTGCAGAGG
150  AAATGGAAGCTGTGCGGACCAAGGTGGCTGATAGGAAAGGTAAAGGGA
200  TTGCGAAAGAGGAGGTCCCGGACGATTTCCTTGAGGTCCCAGACACTT
250  CAGACGAGGGAGGGAGCAGCGACCCGAGTATGAATGCTGAAGAGTGGG
300  AACGGTATGCCATGGGTGTCAGTATGAGGAGCCGGCGTGGTCGAAGGG
350  TTCCTACGCGCGGGCGACGGAGGCGGGTCAATCACAATGGCTGCGAGA
400  CTGCTCCCAACCGTGGTCAGAACAACGCGGCCAGT 3'
```

**Figure A-8. RAMs Sequence 8.** Development of primers JD10-AMO. Where: ▭ represents the $CA_8$ RAMs primer sequence; ▭ represents the microsatellite sequences; ▭ represents the JD10-AMO forward primer sequence; ▭ represents the JD10-AMO reverse primer sequence.

0 CACACACACACACACACATAACACAGCAAGATAATCAAGGAGTTCACC

50 CAAGACTCCTGGGCTACATCTCCTAGTCCAGCCTTCAGTGGTGACCTC

100 TCTATTATGTCTTCAAGAGCGGAGTTTTACAAAAGTGAGCTCAATTT

150 GAGTCTCACACAATAGATACAAAATAACAAGGCTTTACTTGGATCCCC

200 CAAGTCTTTCTGAGTACACAGATTCTCCTCACTAACTCTCTATCTCAG

250 CACTTCTTGTCCCTGTCTCTGTC

**Figure A-9. RAMs Sequence 9.** No Primers developed for this sequence. Where: ▭ represents the $CA_8$ RAMs primer sequence; ▭ represents the microsatellite sequences.

0 5' CACACACACACACACATAACCATGTAACTTGCCTCCAGGAAAACACCT

50 TCGTGCAGTGACCCGACCTCCCTACCCTTGGTTCTTCACACCTTTGTG

100 TTGCCACCTGACTCTAGTGAACATTGTTCTACCACAGGTCTGAACATG

150 GCCAATGTTGTACAACCTAATTGTTGAACTGTTTACATGTCGATTATC

200 CTTCCATAGAAACCCCAA 3'

**Figure A-10. RAMs Sequence 10.** No primers developed for this sequence. Where: ▭ represents the $CA_8$ RAMs primer sequence; ▭ represents the microsatellite sequences.

# APPENDIX B

## ANOVA TABLES

**Table B-1.** Results of ANOVA where the eighteen pollen types were compared based on the dimensional measurement AA.

| | **A22** | **A24** | **A29** | **A31** | **A33** | **A49** | **A57** | **A65** | **A91** | **A93** | **A114** | **A271** | **Ac60** | **Ac62** | **P23** | **P69** | **P88** | **P105** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **A22** | NA | / | / | / | / | / | * | / | / | * | / | * | / | * | * | * | / | / |
| **A24** | / | NA | / | / | * | / | * | * | * | * | * | * | / | * | * | * | * | / |
| **A29** | / | / | NA | / | / | / | * | / | / | * | / | / | / | / | * | / | / | / |
| **A31** | / | / | / | NA | / | / | * | / | / | * | * | * | / | * | * | * | / | / |
| **A33** | / | * | / | / | NA | / | * | / | / | * | / | / | * | / | * | / | / | / |
| **A49** | / | / | / | / | / | NA | * | / | / | * | / | * | / | * | * | * | / | / |
| **A57** | * | * | * | * | * | * | NA | * | * | * | * | * | * | * | * | * | * | * |
| **A65** | / | * | / | / | / | / | * | NA | / | * | / | / | / | / | * | / | / | / |
| **A91** | / | * | / | / | / | / | * | / | NA | * | / | / | / | / | * | / | / | / |
| **A93** | * | * | * | * | * | * | * | * | * | NA | * | * | * | * | / | / | * | * |
| **A114** | / | * | / | * | / | / | * | / | / | * | NA | / | * | / | * | / | / | * |
| **A271** | * | * | / | * | / | * | * | / | / | * | / | NA | * | / | * | / | / | * |
| **Ac60** | / | / | / | / | * | / | * | / | / | * | * | * | NA | * | * | * | / | / |
| **Ac62** | * | * | / | * | / | * | * | / | / | * | / | / | * | NA | * | / | / | * |
| **P23** | * | * | * | * | * | * | * | * | * | / | * | * | * | * | NA | * | * | * |
| **P69** | * | * | / | * | / | * | * | / | / | / | / | / | * | / | * | NA | / | * |
| **P88** | / | * | / | / | / | / | * | / | / | * | / | / | / | / | * | / | NA | / |
| **P105** | / | / | / | / | / | / | * | / | / | * | * | * | / | * | * | * | / | NA |

* = Significantly different

**Table B-2.** Results of ANOVA where the eighteen pollen types are compared based on the dimensional measurement BB.

| | **A22** | **A24** | **A29** | **A31** | **A33** | **A49** | **A57** | **A65** | **A91** | **A93** | **A114** | **A271** | **Ac60** | **Ac62** | **P23** | **P69** | **P88** | **P105** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **A22** | NA | / | * | * | * | * | / | / | / | / | / | / | * | / | / | / | / | / |
| **A24** | / | NA | / | / | / | / | * | / | / | / | / | / | / | / | / | * | * | / |
| **A29** | * | / | NA | / | / | / | * | * | / | * | * | * | / | / | * | * | * | / |
| **A31** | * | / | / | NA | / | / | * | * | / | * | * | * | / | * | * | * | * | / |
| **A33** | * | / | / | / | NA | / | * | * | / | * | * | * | / | * | * | * | * | / |
| **A49** | * | / | / | / | / | NA | * | * | / | * | * | * | / | * | * | * | * | / |
| **A57** | / | * | * | * | * | * | NA | / | * | / | / | / | * | * | / | / | / | * |
| **A65** | / | / | * | * | * | * | / | NA | * | / | / | / | * | / | / | / | / | / |
| **A91** | / | / | / | / | / | / | * | * | NA | * | / | / | / | / | * | * | * | / |
| **A93** | / | / | * | * | * | * | / | / | * | NA | / | / | * | / | / | / | / | / |
| **A114** | / | / | * | * | * | * | / | / | / | / | NA | / | * | / | / | / | / | / |
| **A271** | / | / | * | * | * | * | / | / | / | / | / | NA | * | / | / | / | * | / |
| **Ac60** | * | / | / | / | / | / | * | * | / | * | * | * | NA | * | * | * | * | / |
| **Ac62** | / | / | / | * | * | * | * | / | / | / | / | / | * | NA | / | / | * | / |
| **P23** | / | / | * | * | * | * | / | / | * | / | / | / | * | / | NA | / | / | * |
| **P69** | / | * | * | * | * | * | / | / | * | / | / | / | * | / | / | NA | / | * |
| **P88** | / | * | * | * | * | * | / | / | * | / | / | * | * | * | / | / | NA | * |
| **P105** | / | / | / | / | / | / | * | / | / | / | / | / | / | / | * | * | * | NA |

* = Significantly different

**Table B-3.** Results of ANOVA where the eighteen pollen types are compared based on the dimensional measurement CC.

| | **A22** | **A24** | **A29** | **A31** | **A33** | **A49** | **A57** | **A65** | **A91** | **A93** | **A114** | **A271** | **Ac60** | **Ac62** | **P23** | **P69** | **P88** | **P105** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **A22** | NA | / | / | * | / | * | * | / | / | * | * | / | / | * | * | * | / | * |
| **A24** | / | NA | / | / | / | / | * | * | / | * | * | * | / | * | * | * | / | / |
| **A29** | / | / | NA | * | / | * | * | / | / | * | * | / | / | * | * | * | / | / |
| **A31** | * | / | * | NA | * | / | * | * | * | * | * | * | * | * | * | / | * | / |
| **A33** | / | / | / | * | NA | * | * | / | / | * | / | / | / | / | * | * | / | * |
| **A49** | * | / | / | / | * | NA | * | * | * | * | * | * | * | * | * | / | * | / |
| **A57** | * | * | * | * | * | * | NA | * | * | * | * | * | * | * | / | * | * | * |
| **A65** | / | * | / | * | / | * | * | NA | / | / | / | / | / | / | * | / | / | * |
| **A91** | / | / | / | * | / | * | * | / | NA | * | * | / | / | * | * | * | / | / |
| **A93** | * | * | * | * | * | * | * | / | * | NA | / | / | * | / | / | / | * | * |
| **A114** | * | * | * | * | / | * | * | / | * | / | NA | / | * | / | / | / | * | * |
| **A271** | / | * | / | * | / | * | * | / | / | / | / | NA | / | / | * | / | / | * |
| **Ac60** | / | / | / | * | / | * | * | / | / | * | * | / | NA | * | * | * | / | / |
| **Ac62** | * | * | * | * | / | * | * | / | * | / | / | / | * | NA | / | / | * | * |
| **P23** | * | * | * | * | * | * | / | * | * | / | / | * | * | / | NA | / | * | * |
| **P69** | * | * | * | * | * | * | * | / | * | / | / | / | * | / | / | NA | * | * |
| **P88** | / | / | / | * | / | * | * | / | / | * | * | / | / | * | * | * | NA | / |
| **P105** | * | / | / | / | * | / | * | * | / | * | * | * | / | * | * | * | / | NA |

* = Significantly different

**Table B-4.** Results of ANOVA where the eighteen pollen types are compared based on the dimensional measurement DD.

| | **A22** | **A24** | **A29** | **A31** | **A33** | **A49** | **A57** | **A65** | **A91** | **A93** | **A114** | **A271** | **Ac60** | **Ac62** | **P23** | **P69** | **P88** | **P105** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **A22** | NA | / | / | / | * | * | * | / | / | / | / | / | * | / | / | / | / | / |
| **A24** | / | NA | / | * | * | * | * | / | / | / | / | / | * | / | / | / | / | / |
| **A29** | / | / | NA | / | / | / | * | * | / | * | * | * | / | / | * | * | * | / |
| **A31** | / | * | / | NA | / | / | * | * | / | * | * | * | / | * | * | * | * | / |
| **A33** | * | * | / | / | NA | / | * | * | / | * | * | * | / | * | * | * | * | / |
| **A49** | * | * | / | / | / | NA | * | * | / | * | * | * | / | * | * | * | * | / |
| **A57** | * | * | * | * | * | * | NA | / | * | / | * | * | * | * | / | * | / | * |
| **A65** | / | / | * | * | * | * | * | NA | * | / | / | / | * | / | / | / | / | * |
| **A91** | / | / | / | / | / | / | * | * | NA | * | / | / | / | / | * | / | * | / |
| **A93** | / | / | * | * | * | * | / | / | * | NA | / | / | * | / | / | / | / | * |
| **A114** | / | / | * | * | * | * | * | / | / | / | NA | / | * | / | / | / | / | * |
| **A271** | / | / | * | * | * | * | * | / | / | / | / | NA | * | / | / | / | / | * |
| **Ac60** | * | * | / | / | / | / | * | * | / | * | * | * | NA | * | * | * | * | / |
| **Ac62** | / | / | / | * | * | * | * | / | / | / | / | / | * | NA | / | / | / | / |
| **P23** | / | / | * | * | * | * | / | / | * | / | / | / | * | / | NA | / | / | * |
| **P69** | / | / | * | * | * | * | * | / | / | / | / | / | * | / | / | NA | / | / |
| **P88** | / | / | * | * | * | * | / | / | * | / | / | / | * | / | / | / | NA | * |
| **P105** | / | / | / | / | / | / | * | * | / | * | * | * | / | / | * | / | * | NA |

* = Significantly different

**Table B-5.** Results of ANOVA where the eighteen pollen types are compared based on the dimensional measurement EE.

| | **A22** | **A24** | **A29** | **A31** | **A33** | **A49** | **A57** | **A65** | **A91** | **A93** | **A114** | **A271** | **Ac60** | **Ac62** | **P23** | **P69** | **P88** | **P105** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **A22** | NA | / | * | / | * | / | / | / | / | / | / | / | / | / | / | / | / | / |
| **A24** | / | NA | / | / | / | / | / | / | / | / | / | / | / | / | * | / | / | * |
| **A29** | * | / | NA | / | / | / | * | * | / | / | / | * | * | * | * | * | * | * |
| **A31** | / | / | / | NA | / | / | * | * | / | / | / | / | / | * | * | / | / | * |
| **A33** | * | / | / | / | NA | / | / | * | / | / | / | * | * | * | * | * | * | * |
| **A49** | / | / | / | / | / | NA | * | * | / | / | / | / | / | / | * | / | / | * |
| **A57** | / | / | * | * | * | * | NA | / | * | / | / | / | / | / | / | / | / | / |
| **A65** | / | / | * | * | * | * | / | NA | * | / | / | / | / | / | / | / | / | / |
| **A91** | / | / | / | / | / | / | * | * | NA | / | / | / | / | / | * | / | / | * |
| **A93** | / | / | / | / | / | / | / | / | / | NA | / | / | / | / | * | / | / | / |
| **A114** | / | / | / | / | / | / | / | / | / | / | NA | / | / | / | / | / | / | / |
| **A271** | / | / | * | / | * | / | / | / | / | / | / | NA | / | / | / | / | / | / |
| **Ac60** | / | / | * | / | * | / | / | / | / | / | / | / | NA | / | / | / | / | / |
| **Ac62** | / | / | * | * | * | / | / | / | / | / | / | / | / | NA | / | / | / | / |
| **P23** | / | * | * | * | * | * | / | / | * | * | / | / | / | | NA | / | / | / |
| **P69** | / | / | * | / | * | / | / | / | / | / | / | / | / | / | / | NA | / | / |
| **P88** | / | / | * | / | * | / | / | / | / | / | / | / | / | / | / | / | NA | / |
| **P105** | / | * | * | * | * | * | / | / | * | / | / | / | / | / | / | / | / | NA |

* = Significantly different

# APPENDIX C

## LIST OF TABLES

## LIST OF FIGURES

## LIST OF ABBREVIATIONS

# LIST OF TABLES

# LIST OF FIGURES

# LIST OF ABBREVIATIONS

| | |
|---|---|
| **ANOVA** | Analysis of variance |
| **APS** | Ammonium persulphate |
| **bp** | Base-pairs |
| **ca.** | Approximately |
| **CTAB** | Cetyltrimethylammonium bromide |
| **D.E.R. 736** | Diglycidyl ether of polypropylene glycerol |
| **DMAE** | Dimethylaminoethanol |
| **DNA** | Deoxyribonucleic acid |
| **dNTPs** | Deoxyribonucleotides |
| **DTT** | Dithiothreitol |
| **EDTA** | Ethylenediaminetetraacetic acid |
| **ha.** | Hectare |
| **HCl** | Hydrochloric acid |
| **IPTG** | Isopropylthio-β-D-galactoside |
| **KCl** | Potassium chloride |
| **LB** | Luria-Bertani medium |
| **NaCl** | Sodium chloride |
| **NaOAc** | Sodium acetate |
| **NSA** | Nonenyl succinic anhydride |
| **M** | Molar |
| **$MgCl_2$** | Magnesium chloride |

| | |
|---|---|
| **PC** | Principle component |
| **PCA** | Principle component analysis |
| **PCR** | Polymerase chain reaction |
| **PVP** | Polyvinylpolypyrrolidone |
| **RAMs** | Ramdomly amplified microsatellites |
| **RAPD** | Random amplified polymorphic DNA |
| **RFLP** | Restriction fragment length polymorphism |
| **SAFCOL** | South African Forestry Company Limited |
| **SDS** | Sodium dodecyl sulphate |
| **SEM** | Scanning electron microscope |
| **SSR** | Simple sequence repeats |
| **TAE** | Tris-acetate-EDTA buffer |
| **TBE** | Tris-borate-EDTA buffer |
| **TEM** | Transmission electron microscope |
| **TEMED** | N,N,N'N'-tetra-methylethylenediamine |
| **Tris** | Tris(hydroxymethyl)-aminomethane |
| **U** | One unit of *Taq* DNA polymerase. i.e. the amount of enzyme required to catalyze the incorporation of 10 nanomoles of dNTPs into acid insoluble material in 30 minutes at 74°C. |
| **UV** | Ultraviolet |
| **V** | Volts |
| **VCD** | Vinyl cyclohexene dioxide |

| | |
|---|---|
| **v/v** | Volume per volume |
| **XGAL** | 5-bromo-4-chloro-3-indolyl-β-D-galactoside |
| **w/v** | Weight per volume |