

TABLE 1. Isolation origin, source, and morphological classification of the 125 *Alternaria* haplotypes characterized in this study.

Location	Source or Habitat	Morphology ^a	Strains ^b
Culture Collection	EGS	<i>A. alternata</i>	EGS34-016 ^c
Culture Collection	EGS	<i>A. tenuissima</i>	EGS34-015 ^c
Culture Collection	EGS	<i>A. arborescens</i>	EGS39-128 ^c
Culture Collection	ATCC	<i>A. alternata</i>	ATCC1168 ^d
Native desert	plant debris	<i>A. arborescens</i>	BMP1089
Native desert	plant debris	Aa/ At intermediate	BMP1091
Native desert	plant debris	<i>A. tenuissima</i>	BMP1098
Native desert	plant debris	Aa/ At intermediate	BMP1100
Native desert	plant debris	Aa/ At intermediate	BMP1102
Native desert	plant debris	Aa/ At intermediate	BMP1110
Native desert	plant debris	Aa/ At intermediate	BMP1113
Native desert	plant debris	Aa/ At intermediate	BMP1114
Native desert	plant debris	Aa/ At intermediate	BMP1117
Native desert	plant debris	Aa/ At intermediate	BMP1118
Native desert	plant debris	Aa/ At intermediate	BMP1119
Native desert	plant debris	Aa/ At intermediate	BMP1123
Native desert	plant debris	Aa/ At intermediate	BMP1124
Native desert	plant debris	Aa/ At intermediate	BMP1125
Native desert	plant debris	Aa/ At intermediate	BMP1132
Native desert	plant debris	light sporulation	BMP1134
Native desert	plant debris	light sporulation	BMP1137
Native desert	plant debris	At/ Aa intermediate	BMP1146
Native desert	plant debris	<i>A. alternata</i>	BMP1149
Native desert	plant debris	At/ Aa intermediate	BMP1151
Native desert	plant debris	At/ Aa intermediate	BMP1154
Native desert	plant debris	<i>A. alternata</i>	BMP1159
Native desert	plant debris	At/ Aa intermediate	BMP1165
Native desert	plant debris	<i>A. tenuissima</i>	BMP1224
Native desert	plant debris	At/ Aa intermediate	BMP1228
Native desert	plant debris	At/ Aa intermediate	BMP1229
Native desert	plant debris	<i>A. tenuissima</i>	BMP1230
Native desert	plant debris	At/ Aa intermediate	BMP1234
Native desert	plant debris	At/ Aa intermediate	BMP1235
Native desert	plant debris	<i>A. alternata</i>	BMP1237
Native desert	plant debris	At/ Aa intermediate	BMP1240
Native desert	plant debris	At/ Aa intermediate	BMP1246
Native desert	plant debris	<i>A. alternata</i>	BMP1255
Native desert	plant debris	<i>A. tenuissima</i>	BMP1260
Native desert	plant debris	At/ Aa intermediate	BMP1266
Native desert	plant debris	At/ Aa intermediate	BMP1267
Native desert	plant debris	<i>A. alternata</i>	BMP1269
Native desert	soil	Aa/ At intermediate	BMP1108
Native desert	soil	At/ Aa intermediate	BMP1145

Native desert	soil	At/ Aa intermediate	BMP1147
Native desert	soil	At/ Aa intermediate	BMP1176
Native desert	soil	At/ Aa intermediate	BMP1179
Native desert	soil	At/ Aa intermediate	BMP1181
Native desert	soil	At/ Aa intermediate	BMP1183
Native desert	soil	At/ Aa intermediate	BMP1184
Native desert	soil	<i>A. tenuissima</i>	BMP1194
Native desert	soil	At/ Aa intermediate	BMP1197
Native desert	soil	At/ Aa intermediate	BMP1199
Native desert	soil	At/ Aa intermediate	BMP1200
Native desert	soil	<i>A. tenuissima</i>	BMP1201
Native desert	soil	At/ Aa intermediate	BMP1203
Native desert	soil	<i>A. alternata</i>	BMP1208
Native desert	soil	At/ Aa intermediate	BMP1210
Native desert	soil	At/ Aa intermediate	BMP1212
Native desert	soil	<i>A. tenuissima</i>	BMP1214
Native desert	soil	At/ Aa intermediate	BMP1217
Urban	plant debris	<i>A. tenuissima</i>	BMP1068
Urban	plant debris	Aa/ At intermediate	BMP1072
Urban	plant debris	Aa/ At intermediate	BMP1073
Urban	plant debris	At/ Aa intermediate	BMP1278
Urban	plant debris	<i>A. alternata</i>	BMP1506
Urban	plant debris	At/ Aa intermediate	BMP1509
Urban	plant debris	<i>A. alternata</i>	BMP1550
Urban	plant debris	At/ Aa intermediate	BMP1551
Urban	plant debris	<i>A. alternata</i>	BMP1553
Urban	plant debris	At/ Aa intermediate	BMP1566
Urban	plant debris	At/ Aa intermediate	BMP1569
Urban	plant debris	At/ Aa intermediate	BMP1576
Urban	plant debris	At/ Aa intermediate	BMP1591
Urban	plant debris	At/ Aa intermediate	BMP1592
Urban	plant debris	<i>A. alternata</i>	BMP1597
Urban	plant debris	<i>A. tenuissima</i>	BMP1598
Urban	plant debris	At/ Aa intermediate	BMP1609
Urban	plant debris	<i>A. alternata</i>	BMP1610
Urban	plant debris	At/ Aa intermediate	BMP1612
Urban	plant debris	At/ Aa intermediate	BMP1621
Urban	plant debris	At/ Aa intermediate	BMP1624
Urban	plant debris	At/ Aa intermediate	BMP1637
Urban	plant debris	<i>A. tenuissima</i>	BMP1646
Urban	plant debris	At/ Aa intermediate	BMP1657
Urban	plant debris	At/ Aa intermediate	BMP1664
Urban	plant debris	At/ Aa intermediate	BMP1665
Urban	plant debris	<i>A. alternata</i>	BMP1673
Urban	plant debris	At/ Aa intermediate	BMP1674
Urban	plant debris	<i>A. tenuissima</i>	BMP1675
Urban	plant debris	<i>A. tenuissima</i>	BMP1687

Urban	plant debris	<i>A. alternata</i>	BMP1689
Urban	plant debris	<i>A. alternata</i>	BMP1691
Urban	plant debris	At/ Aa intermediate	BMP1700
Urban	plant debris	<i>A. alternata</i>	BMP1701
Urban	plant debris	<i>A. alternata</i>	BMP1702
Urban	plant debris	<i>A. alternata</i>	BMP1709
Urban	plant debris	At/ Aa intermediate	BMP1710
Urban	plant debris	<i>A. alternata</i>	BMP1711
Urban	plant debris	At/ Aa intermediate	BMP1715
Urban	plant debris	<i>A. alternata</i>	BMP1756
Urban	soil	At/ Aa intermediate	BMP1272
Urban	soil	<i>A. alternata</i>	BMP1500
Urban	soil	At /Aa intermediate	BMP1501
Urban	soil	<i>A. tenuissima</i>	BMP1504
Urban	soil	At/ Aa intermediate	BMP1522
Urban	soil	At/ Aa intermediate	BMP1525
Urban	soil	At/ Aa intermediate	BMP1541
Urban	soil	<i>A. alternata</i>	BMP1546
Urban	soil	At/ Aa intermediate	BMP1582
Urban	soil	At/ Aa intermediate	BMP1585
Urban	soil	At/ Aa intermediate	BMP1600
Urban	soil	At/ Aa intermediate	BMP1601
Urban	soil	<i>A. arborescens</i>	BMP1616
Urban	soil	At/ Aa intermediate	BMP1642
Urban	soil	<i>A. alternata</i>	BMP1651
Urban	soil	At/ Aa intermediate	BMP1659
Urban	soil	At/ Aa intermediate	BMP1670
Urban	soil	<i>A. alternata</i>	BMP1672
Urban	soil	At/ Aa intermediate	BMP1679
Urban	soil	<i>A. alternata</i>	BMP1696
Urban	soil	<i>A. tenuissima</i>	BMP1718
Urban	soil	At/ Aa intermediate	BMP1725
Urban	soil	At/ Aa intermediate	BMP1727
Urban	soil	<i>A. tenuissima</i>	BMP1728
Urban	soil	At/ Aa intermediate	BMP1768
Urban	soil	At/ Aa intermediate	BMP1802
Urban	soil	At/ Aa intermediate	BMP1805
Urban	soil	At/ Aa intermediate	BMP1808
Urban	soil	At/ Aa intermediate	BMP1810

^aAll isolates were assigned into one of the three morphological groups according to their similarity with the reference strains used. Aa/At and At/Aa intermediate describes strains that produce mostly long unbranched chains (>6 conidia) but with increasing numbers of secondary and tertiary chains forming. Aa/At intermediates are more similar to *A. alternata* and At/Aa intermediates are more similar to *A. tenuissima*.

^bEGS Abbreviations are as follows : EGS, E. G. Simmons, Mycological Services, Crawfordsville, IN 47933; ATCC, American Type Culture Collection, Manassas, VA 20110-2209; BMP, B. M. Pryor, School of Plant Sciences, University of Arizona, Tucson, AZ 85721

^cStrains that have been recognized as having diagnostic morphology and have been widely used in comparative mycology. EGS 34-016 is the ex-epitype for *A. alternata*, EGS 39-128 is the ex-type for *A. arborescens*, and EGS 34-015 has been used by EG Simmons and others for years as a surrogate for *A. tenuissima* in the absence of a type.

^dRepresents a strain frequently used in in the commercial production of *Alternaria alternata* allergen extract used in sensitization testing.