

*Absidia glauca* Hagem

1001 <- CLMR <- CBS.

=JCM 5606

Medium PDA.

28°C Mating type (-)

Synonym

---

*Gongronella butleri* (Lendner) Peyronel & Dal Vesco

1002 <- NI 1001.

=NBRC 8080 =JCM 5607

Medium PDA.

28°C Mating type (+)

Reference(1).

Synonym *Absidia butleri*.

---

*Gongronella butleri* (Lendner) Peyronel & Dal Vesco

1003 <- NI 1229.

=NBRC 8081 =JCM 5608

Medium PDA.

28°C Mating type (-)

Reference(1).

Synonym *Absidia butleri*.

---

*Absidia cylindrospora* Hagem

1008 <- IFO 4436 <- OUT <- CLMR.

=NBRC 4436

Medium PDA.

28°C Mating type (+)

Synonym *Absidia orchidis*.

---

*Absidia cylindrospora* Hagem

1010 <- NI 1003.

Medium PDA.

28°C Mating type (-)

Synonym

---

*Absidia cylindrospora* Hagem

1011 <- CLMR <- CBS (Hagem).

Medium PDA.

28°C Mating type (-)

Synonym

---

*Absidia cylindrospora* Hagem

1012 <- IFO 4437 <- OUT <- CLMR.

=NBRC 4437

Medium PDA.

28°C Mating type (-)

Synonym

---

*Absidia glauca* Hagem

1013 <- NI 1004 <- OUT <- CLMR <- CBS <- O. Hagem.

=JCM 5609

Medium PDA.

28°C Mating type (+)

Reference(2).

Synonym

---

*Absidia glauca* Hagem

1014 <- CLMR <- CBS (Hagem).

=JCM 5610

Medium PDA.

28°C Mating type (+)

Reference(2).

Synonym

---

*Absidia glauca* Hagem

1015 <- IFO 4002 <- HUT <- CLMR <- CBS <- O. Hagem.

=NBRC 4002 =IAM 6172 =JCM 5611

Medium PDA.

28°C Mating type (+)

Reference(2).

Synonym

---

*Absidia glauca* Hagem

**1016** <- CLMR <- CBS <- O. Hagem.

=JCM 5612

Medium PDA.  
Reference(2).

28°C Mating type (-)

Synonym

---

*Absidia glauca* Hagem

**1019** <- NI 1005 <- OUT <- CLMR <- CBS <- O. Hagem.

=JCM 5613

Medium PDA.  
Reference(2).

28°C Mating type (-)

Synonym

---

*Absidia glauca* Hagem

**1020** <- T. Kojiro.

Medium PDA.

28°C

Synonym

---

*Absidia glauca* Hagem var. *paradoxa* Namyslowski

**1022** <- IFO 4431 <- FAT <- CLMR <- CBS <- B. Namyslowski.

=NBRC 4431 =JCM 5614

Medium PDA.

28°C Mating type (-)

Synonym

---

*Absidia hyalospora* (Saito) Lendner

**1025** <- CLMR.

=NBRC 8082

Medium PDA.

28°C Mating type (+)

Synonym *Tieghemella hyalospora*.

---

*Absidia corymbifera* (Cohn) Saccardo & Trotter

**1027** <- IFO 4009 <- HUT <- CLMR <- CBS 100.31 <- N. Plum. From aborted cow.

=NBRC 4009 4010 =JCM 5602 5603 5615 =CBS 100.31

Medium PDA.  
Reference(3)(4)(5).

28°C Mating type (+) BSL 2

Synonym *Absidia lichtheimi*.

---

*Absidia corymbifera* (Cohn) Saccardo & Trotter

**1028** <- IFO 4010 <- OUT <- CLMR. From aborted cow.

=NBRC 4009 4010 =JCM 5602 5603 5615 =CBS 100.31

Medium PDA.  
Reference(3)(4)(5).

28°C Mating type (+)

Synonym *Absidia lichtheimi*.

---

*Absidia corymbifera* (Cohn) Saccardo & Trotter

**1029** <- NI 1007 <- OUT <- CLMR <- CBS.

=IAM 6182 =JCM 5617

Medium PDA.  
Reference(4)(5).

28°C Mating type (+)

Synonym *Absidia lichtheimi*.

---

*Absidia corymbifera* (Cohn) Saccardo & Trotter

**1030** <- NI 1008 <- OUT <- CLMR (H. Naganishi). From kaoliangchiu.

=JCM 5618

Medium PDA.  
Reference(4)(5).

28°C

Synonym *Absidia lichtheimi*.

---

*Absidia corymbifera* (Cohn) Saccardo & Trotter

**1031** <- NI 1183 <- K. Tubaki. From pumpkin flower.

=JCM 5619

Medium PDA.  
Reference(4)(5).

28°C Mating type (-)

Synonym *Absidia lichtheimi*.

---

*Absidia corymbifera* (Cohn) Saccardo & Trotter

1032 <- CLMR.

=JCM 5620

Medium PDA.  
Reference(4)(5).

28°C Mating type (+)

Synonym *Absidia lichtheimi*.

---

*Absidia corymbifera* (Cohn) Saccardo & Trotter

1033 <- H. Naganishi. From horse dung.

=JCM 5621

Medium PDA.  
Reference(4)(5).

28°C

Synonym *Absidia lichtheimi*.

---

*Absidia coerulea* Bainier

1034 <- IFO 4423 <- GRIF <- CBS <- O. Hagem.

=NBRC 4423

Medium PDA.

28°C Mating type (+)

Synonym *Absidia orchidis*.

---

*Absidia coerulea* Bainier

1035 <- CLMR <- CBS <- O. Hagem.

Medium PDA.

28°C Mating type (+)

Synonym *Absidia orchidis*.

---

*Absidia coerulea* Bainier

1036 <- CLMR <- CBS <- O. Hagem.

Medium PDA.

28°C Mating type (-)

Synonym *Absidia orchidis*.

---

*Absidia coerulea* Bainier

1037 <- NI 1009 <- OUT <- CLMR <- CBS <- O. Hagem.

=NBRC 5301 =JCM 5600

Medium PDA.  
Reference(2).

28°C Mating type (+)

Synonym *Absidia orchidis*.

---

*Absidia coerulea* Bainier

1038 <- NI 1010 <- OUT <- CLMR <- CBS.

=NBRC 5302 =JCM 5601

Medium PDA.  
Reference(2).

28°C Mating type (-)

Synonym *Absidia orchidis*.

---

*Absidia corymbifera* (Cohn) Saccardo & Trotter

1040 <- NI 1014 <- T. Nehira. From canary dropping.

=JCM 5622

Medium PDA.  
Reference(4)(5).

28°C

BSL 2

Synonym *Absidia ramosa*.

---

*Absidia corymbifera* (Cohn) Saccardo & Trotter

1041 <- NI 1124 <- K. Kominami. From wheat flower.

=JCM 5623

Medium PDA.  
Reference(4)(5).

28°C

BSL 2

Synonym *Absidia ramosa*.

---

*Absidia corymbifera* (Cohn) Saccardo & Trotter

1042 <- NI 1216 <- K. Tubaki. From horse dung.

=NBRC 8083 =JCM 5624

Medium PDA.  
Reference(4)(5).

28°C Mating type (-)

BSL 2

Synonym *Absidia ramosa*.

---

*Absidia spinosa* Lendner

1045 <- NI 1012 <- OUT <- CLMR <- CBS.

=JCM 5625

Medium PDA.  
Reference(4).

28°C

Synonym

---

*Absidia spinosa* Lendner

1046 <- NI 1013 <- K. Kominami. From formosa forest soil.

=JCM 5626

Medium PDA.  
Reference(4).

28°C

Synonym

---

*Absidia spinosa* Lendner

1048 <- CLMR <- CBS.

=JCM 5627

Medium PDA.  
Reference(4).

28°C

Synonym

---

*Actinomucor elegans* (Eidam) Benjamin & Hesseltine

1049 <- NI 1015 <- OUT <- CLMR.

=IAM 6160 =JCM 22485

Medium PDA.

28°C

Synonym *Actinomucor repens*.

---

*Actinomucor elegans* (Eidam) Benjamin & Hesseltine

1052 <- CLMR.

Medium PDA.

28°C Mating type (-)

Synonym *Mucor cunninghamelloides*.  
*Actinomucor repens*.

---

*Circinella mucoroides* Saito

1076 <- H. Naganishi. From hoangchui.

Medium PDA.

28°C Mating type (-)

Synonym *Circinella chinensis*.

---

*Circinella minor* Lendner

1077 <- GRIF.

Medium PDA.

28°C

Synonym

---

*Circinella minor* Lendner

1079 <- OUT (K. Saito).

=NBRC 4454

Medium PDA.

28°C Mating type (-)

Synonym *Circinella mucoroides*.

---

*Circinella mucoroides* Saito

1080 <- OUT (K. Saito).

Medium PDA.

28°C

Synonym

---

*Circinella mucoroides* Saito

1084 <- H. Naganishi.

Medium PDA.

28°C Mating type (-)

Synonym

---

*Circinella mucoroides* Saito

1085 <- H. Naganishi. From dung.

Medium PDA.

28°C

Synonym

---

*Circinella muscae* (Sorokine) Berlese & de Toni

1086 <- CLMR <- CBS.

Medium PDA.

28°C

Synonym *Circinella sydowii*.

---

*Circinella simplex* van Tieghem

1087 <- NI 1198.

Medium PDA.

28°C Mating type (-)

Synonym

---

*Circinella umbellata* van Tieghem & Le Monnier

1089 <- CLMR (H. Naganishi). From air.

Medium PDA.

28°C

Synonym *Circinella aspera*.

---

*Circinella umbellata* van Tieghem & Le Monnier

1090 <- NI 1199.

Medium PDA.

28°C Mating type (+)

Synonym

---

*Circinella umbellata* van Tieghem & Le Monnier

**1091** <- IFO 4452 <- HUT <- CLMR (H. Naganishi).

=NBRC 4452

Medium PDA.

28°C Mating type (-)

Synonym *Circinella aspera*.

---

*Cunninghamella echinulata* (Thaxter) Thaxter var. *elegans* (Lendner) Lunn & Shipton

**1093** <- CBS.

=NBRC 4443

Medium PDA.

28°C Mating type (+)

Reference(10).

Synonym *Cunninghamella blakesleeana*.  
*Cunninghamella elegans*.

---

*Cunninghamella echinulata* (Thaxter) Thaxter var. *elegans* (Lendner) Lunn & Shipton

**1097** <- IFO 4445 <- HUT 1097 <- CBS <- CLMR (H. Naganishi). From air.

=NBRC 4445

Medium PDA.

28°C Mating type (-)

Synonym *Cunninghamella blakesleeana*.

---

*Cunninghamella echinulata* (Thaxter) Thaxter var. *elegans* (Lendner) Lunn & Shipton

**1098** <- IFO 4446 <- HUT 1098 <- FAT

=NBRC 4446 =CBS 657.85

Medium PDA.

28°C Mating type (+)

Reference(10).

Synonym *Cunninghamella elegans*.

---

*Cunninghamella echinulata* (Thaxter) Thaxter var. *elegans* (Lendner) Lunn & Shipton

**1099** <- NI 1026.

Medium PDA.

28°C Mating type (+)

Synonym *Cunninghamella elegans*.

---

*Cunninghamella echinulata* (Thaxter) Thaxter var. *elegans* (Lendner) Lunn & Shipton

1100 <- FAT.

Medium PDA.

28°C Mating type (+)

Synonym *Cunninghamella elegans*.

---

*Cunninghamella echinulata* (Thaxter) Thaxter var. *elegans* (Lendner) Lunn & Shipton

1101 <- Kojiro. From soil.

Medium PDA.

28°C Mating type (-)

Synonym *Cunninghamella elegans*.

---

*Cunninghamella echinulata* (Thaxter) Thaxter var. *elegans* (Lendner) Lunn & Shipton

1102 <- CLMR (H. Naganishi). From air.

Medium PDA.

28°C Mating type (-)

Synonym *Cunninghamella elegans*.

---

*Cunninghamella homothallica* Kominami & Tubaki

1105 <- NI 1151 (K. Tubaki). From soil. Japan.

=NBRC 6736 =CBS 168.53

Medium PDA.

28°C

Reference(10).

Synonym

---

*Helicostylum nigricans* van Tieghem

1106 <- H. Naganishi.

=NBRC 8091

Medium PDA.

28°C Mating type (-)

Synonym

---

*Thamnostylum piriforme* (Bainier) von Arx & Upadhyay

1107 <- CBS.

Medium PDA.

28°C Mating type (+)

Synonym *Helicostylum piriforme*.

---

*Thamnostylum piriforme* (Bainier) von Arx & Upadhyay

1108 <- NI 1238.

Medium PDA.

28°C Mating type (+)

Synonym *Helicostylum piriforme*.

---

*Thamnostylum piriforme* (Bainier) von Arx & Upadhyay

1109 <- NI 1239.

Medium PDA.

28°C Mating type (-)

Synonym *Helicostylum piriforme*.

---

*Umbelopsis isabellina* (Oudemans) W. Gams

1110 <- NI 1186 (K. Tubaki; 87-2)

=NBRC 6739 7824

Medium PDA.

28°C

Synonym *Mortierella pusilla* var. *isabellina*.

---

*Mucor ambiguus* Vuillemin

1115 <- NI 1034.

=NBRC 8092

Medium PDA.

28°C Mating type (-)

Synonym *Mucor alternans*.

---

***Mucor ambiguus*** Vuillemin

**1116** <- CLMR <- GIB.

Medium PDA.

28°C Mating type (-)

Synonym *Mucor alternans*.

---

***Mucor circinelloides*** van Tieghem f. *circinelloides*

**1120** <- CLMR (H. Naganishi). From kaoliangchui moromi.

=NBRC 4554

Medium PDA.

28°C Mating type (+)

Synonym *Mucor circinelloides*.

---

***Mucor circinelloides*** van Tieghem f. *circinelloides*

**1122** <- IFO 5775 <- CBS 172.27 <- F.H.van Beyma (strain Nangka). From fruit of Artocarpus sp.

=NBRC 5775 =CBS 172.27

Medium PDA.

28°C Mating type (+)

Reference(28).

Synonym *Mucor circinelloides*.

---

***Mucor circinelloides*** van Tieghem f. *circinelloides*

**1123** <- NI 1035.

Medium PDA.

28°C Mating type (+)

Synonym *Mucor cercinelloides*.

---

***Mucor racemosus*** Fresenius f. *racemosus* Lendner

**1124** <- CLMR (H. Naganishi). From horse dung.

=NBRC 4555

Medium PDA.

28°C

Synonym *Mucor dimorphosporus*.

*Mucor racemosus*.

---

*Mucor racemosus* Fresenius f. *racemosus* Lendner

1125 <- FAT.

=NBRC 4556

Medium PDA.

28°C Mating type (+)

Synonym *Mucor dimorphosporus*.  
*Mucor racemosus*.

---

*Mucor dubius* Wehmer

1128 <- NI 1038.

Medium PDA.

28°C Mating type (+)

Synonym

---

*Mucor dubius* Wehmer

1129 <- CLMR.

Medium PDA.

28°C Mating type (+)

Synonym

---

*Mucor dubius* Wehmer

1130 <- NI 1039.

Medium PDA.

28°C Mating type (-)

Synonym

---

*Mucor hiemalis* Wehmer f. *hiemalis*

1131 <- NI 1047.

Medium PDA.

28°C Mating type (+)

Synonym *Mucor erectus*.

---

***Mucor hiemalis*** Wehmer f. *hiemalis*

**1132** <- NI 1048.

Medium PDA.

28°C Mating type (+)

Synonym *Mucor erectus*.

---

***Mucor hiemalis*** Wehmer f. *hiemalis*

**1133** <- GIB.

=IFO 4559

Medium PDA.

28°C Mating type (+)

Synonym *Mucor erectus*.

---

***Mucor hiemalis*** Wehmer f. *hiemalis*

**1134** <- CLMR.

Medium PDA.

28°C Mating type (+)

Synonym *Mucor erectus*.

---

***Mucor fuscus*** Bainier

**1137** <- CLMR <- CBS (McFarland).

Medium PDA.

28°C Mating type (+)

Synonym

---

***Mucor genevensis*** Lendner

**1143** <- H. Naganish. From tree.

Medium PDA.

28°C

Synonym

---

*Mucor circinelloides* van Tieghem f. *griseo-cyanus* (Hagem) Schipper

1144 < CBS.

=NBRC 4563

Medium PDA.

28°C Mating type (+)

Synonym *Mucor griseo-cyanus*.

---

*Mucor hiemalis* Wehmer f. *hiemalis*

1147 < NI 1042.

Medium PDA.

28°C Mating type (-)

Synonym *Mucor hiemalis*.

---

*Mucor hiemalis* Wehmer f. *hiemalis*

1149 < NI 1213.

Medium PDA.

28°C Mating type (-)

Synonym *Mucor hiemalis*.

---

*Mucor hiemalis* Wehmer f. *hiemalis*

1151 < CLMR < CBS.

Medium PDA.

28°C Mating type (+)

Synonym *Mucor hiemalis*.

---

*Mucor hiemalis* Wehmer f. *hiemalis*

1152 < H. Naganishi. From horse dung.

Medium PDA.

28°C Mating type (-)

Synonym *Mucor hiemalis*.

---

*Mucor circinelloides* van Tieghem f. *janssenii* (Lendner) Schipper

1153 <- NI 1049.

Medium PDA.

28°C Mating type (-)

Synonym *Mucor hiemalis*.

---

*Mucor circinelloides* van Tieghem f. *janssenii* (Lendner) Schipper

1154 <- T. Kojiro (KN-41). From soil.

=NBRC 6746 =ATCC 42258

Medium PDA.

28°C Mating type (+)

Synonym *Mucor janssenii*.

---

*Mucor javanicus* Wehmer

1155 <- NI 1052.

Medium PDA.

28°C Mating type (+)

Synonym

---

*Mucor javanicus* Wehmer

1156 <- NI 1053.

Medium PDA.

28°C Mating type (+)

Synonym

---

*Mucor circinelloides* van Tieghem f. *circinelloides*

1157 <- CLMR (H. Naganishi). From "kyokushi".

=NBRC 4569

Medium PDA.

28°C Mating type (+)

Synonym *Mucor javanicus*.

---

*Mucor javanicus* Wehmer

**1158** <- IFO 4571.

=IFO 4571

Medium PDA.

28°C Mating type (+)

Synonym

---

*Mucor javanicus* Wehmer

**1159** <- CLMR (H. Naganishi).

Medium PDA.

28°C Mating type (+)

Synonym

---

*Mucor javanicus* Wehmer

**1160** <- H. Naganishi. From feed.

Medium PDA.

28°C Mating type (-)

Synonym

---

*Mucor javanicus* Wehmer

**1161** <- NI 1054.

Medium PDA.

28°C Mating type (-)

Synonym

---

*Mucor circinelloides* van Tieghem f. *circinelloides*

**1163** <- CLMR (H. Naganishi). From "kyokushi".

=NBRC 4572

Medium PDA.

28°C Mating type (-)

Synonym *Mucor javanicus*.

---

*Mucor circinelloides* van Tieghem f. *circinelloides*

**1164** <- IFO 5382 <- Iowa State College 21 (L.B. Lockwood; 718).

=NBRC 5382

Medium PDA.

28°C Mating type (-)

Synonym *Mucor javanicus*.

---

*Mucor javanicus* Wehmer

**1165** <- NI 1050.

Medium PDA.

28°C Mating type (+)

Synonym

---

*Mucor javanicus* Wehmer

**1166** <- NI 1051.

Medium PDA.

28°C Mating type (-)

Synonym

---

*Mucor javanicus* Wehmer

**1167** <- CLMR (H. Naganishi). From "kyokushi".

Medium PDA.

28°C Mating type (-)

Synonym

---

*Mucor javanicus* Wehmer

**1168** <- CLMR (H. Naganishi). From "kyokushi".

Medium PDA.

28°C Mating type (-)

Synonym

---

***Backusella lamprospora*** (Lendner) Benny & R.K.Benjamin

**1169** <- NI 1258 (K. Tubaki). From soil of Mt. Fuji.

=NBRC 6747

Medium PDA.

28°C Mating type (+)

Synonym *Mucor lamprosporus*.

---

***Mucor petrinsularis*** Naumov

**1175** <- NI 1202 (K. Tubaki).

=NBRC 6751

Medium PDA.

28°C

Synonym

---

***Mucor piriformis*** Fischer

**1176** <- CLMR <- CBS.

=NBRC 6745

Medium PDA.

28°C Mating type (-)

Synonym

---

***Mucor plumbeus*** Bonorden

**1178** <- NI 1069.

Medium PDA.

28°C Mating type (-)

Synonym *Mucor spinosus*.

---

***Mucor circinelloides*** van Tieghem f. *circinelloides*

**1180** <- NI 1058.

Medium PDA.

28°C

Synonym *Mucor mandshuricus*.  
*Mucor prainii*.

---

*Mucor circinelloides* van Tieghem f. *circinelloides*

**1181** <- CLMR (K. Saito) From "kyokushi" (kaoliangchui yeast cake).

=NBRC 4574

Medium PDA.

28°C Mating type (-)

Synonym *Mucor mandshuricus*.  
*Mucor prainii*.

---

*Mucor circinelloides* van Tieghem f. *circinelloides*

**1182** <- IFO 5774 <- CBS 205.28.

=NBRC 5774 =IAM 6120 =CBS 205.28

Medium PDA.

28°C Mating type (-)

Synonym *Mucor mandshuricus*.  
*Mucor prainii*.

---

*Mucor circinelloides* van Tieghem f. *circinelloides*

**1183** <- CBS.

=IFO 4577

Medium PDA.

28°C Mating type (-)

Synonym *Mucor prainii*.

---

*Mucor circinelloides* van Tieghem f. *circinelloides*

**1184** <- NI 1057.

Medium PDA.

28°C Mating type (-)

Synonym *Mucor prainii*.

---

*Rhizomucor pusillus* (Lindt) Schipper

**1185** <- NI 1060.

Medium PDA.

28°C Mating type (+)

Synonym *Mucor pusillus*.

---

***Rhizomucor pusillus*** (Lindt) Schipper

**1186** <- CLMR (H. Naganishi). From kaoliangchui moromi.

=NBRC 4578

Medium PDA.  
Reference(29).

28°C Mating type (+)

Synonym *Mucor pusillus*.

---

***Rhizomucor pusillus*** (Lindt) Schipper

**1187** <- CLMR (H. Naganishi). From kaoliangchui moromi.

=NBRC 4579

Medium PDA.  
Reference(29).

28°C Mating type (+)

Synonym *Mucor pusillus*.

---

***Mucor racemosus*** Fresenius f. ***racemosus*** Lendner

**1189** <- CLMR (H. Naganishi). From "kyokushi".

Medium PDA.

28°C Mating type (+)

Synonym *Mucor racemosus*.

---

***Mucor racemosus*** Fresenius f. ***racemosus*** Lendner

**1190** <- IFO 5403 <- AHU M-6 <- CLMR (H. Naganishi).

=NBRC 5403

Medium PDA.

28°C Mating type (-)

Synonym *Mucor racemosus*.

---

***Mucor racemosus*** Fresenius f. ***racemosus*** Lendner

**1191** <- CLMR (H. Naganishi). From kaoliangchui yeast cake.

=IFO 4553

Medium PDA.

28°C

Synonym *Mucor christianiensis*.  
*Mucor racemosus*.

---

*Mucor racemosus* Fresenius f. *racemosus* Lendner

1192 <- NI 1061.

Medium PDA.

28°C Mating type (+)

Synonym *Mucor racemosus*.

---

*Mucor racemosus* Fresenius f. *racemosus* Lendner

1193 <- NI 1062.

Medium PDA.

28°C Mating type (+)

Synonym *Mucor racemosus*.

---

*Mucor ramannianus* Moller

1196 <- NI 1185.

Medium PDA.

28°C

Synonym

---

*Mucor recurvus* Butler

1198 <- NI 1259 <- E. E. Butler.

=NBRC 8093

Medium PDA.

28°C

Synonym

---

*Mucor rouxianus* (Calmette) Wehmer

1200 <- NI 1066.

Medium PDA.

28°C Mating type (+)

Synonym *Mucor rouxii*.

---

***Mucor rouxianus*** (Calmette) Wehmer

**1201** <- NI 1067.

IFO Medium No.1.

28°C Mating type (+)

Synonym *Mucor rouxii*.

---

***Mucor plumbeus*** Bonorden

**1205** <- NCTC.

=NBRC 4575

Medium PDA.

28°C

Synonym *Mucor spinosus*.

---

***Mucor plumbeus*** Bonorden

**1206** <- IFO 5317 <- AHU M-12 <- CLMR.

=NBRC 5317

Medium PDA.

28°C

Synonym *Mucor spinosus*.

---

***Mucor plumbeus*** Bonorden

**1207** <- NI 1155.

Medium PDA.

28°C Mating type (-)

Synonym *Mucor spinosus*.

---

***Mucor plumbeus*** Bonorden

**1208** <- NI 1156.

Medium PDA.

28°C

Synonym *Mucor spinescens*.  
*Mucor spinosus*.

---

*Mucor subtilissimus* Oudemans

**1210** <- NI 1218 (K. Tubaki).

=NBRC 6755 =ATCC 42259

Medium PDA.

28°C Mating type (-)

Synonym

---

*Rhizopus oryzae* Went & Prinsen Geerligs

**1219** <- NI 1225.

Medium PDA.

28°C

Synonym *Rhizopus acetoinus*.

---

*Rhizopus oryzae* Went & Prinsen Geerligs

**1220** <- IFO 4770 <- HUT 1220 <- GRIF (Y. Takeda; 1402).

=NBRC 4770

Medium PDA.

28°C

Synonym *Rhizopus achlamyosporus*.

---

*Rhizopus oryzae* Went & Prinsen Geerligs

**1223** <- NI 1073.

Medium PDA.

28°C

Synonym *Rhizopus nodosus*.

---

*Rhizopus stolonifer* (Ehrenberg : Fries) Vuillemin var. *stolonifer*

**1225** <- FSK (RH6).

Medium PDA.

28°C

Synonym *Rhizopus nigricans*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1226** <- IFO 4744 <- FAT <- GRIF (R. Nakazawa).

=NBRC 4744

Medium PDA.

28°C

Synonym *Rhizopus batatas*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1227** <- NI 1089.

Medium PDA.

28°C

Synonym *Rhizopus batatas*.

---

***Rhizopus microsporus*** van Tieghem var. *chinensis* (Saito)Schipper & Stalpers

**1228** <- NI 1074.

Medium PDA.

28°C Mating type (-)

Synonym *Rhizopus chinensis*.

---

***Rhizopus microsporus*** van Tieghem var. *chinensis* (Saito)Schipper & Stalpers

**1230** <- CBS.

Medium PDA.

28°C

Synonym *Rhizopus chinensis*.

---

***Rhizopus microsporus*** van Tieghem var. *chinensis* (Saito)Schipper & Stalpers

**1231** <- IFO 4737 <- GRIF (Y. Takeda; 8901).

=NBRC 4737

Medium PDA.

28°C

Synonym *Rhizopus chinensis* var. *liquefaciens*.

---

*Rhizopus chiuniang* Yamazaki

**1232** <- NI 1203.

Medium PDA.

28°C

Synonym

---

*Rhizopus chiuniang* Yamazaki

**1233** <- IFO 4696.

=IFO 4696

Medium PDA.

28°C

Synonym

---

*Rhizopus oryzae* Went & Prinsen Geerligs

**1234** <- IFO 4754 <- FAT <- M. Yamazaki.

=NBRC 4754

Medium PDA.

28°C

Synonym *Rhizopus chungkuoensis*.

---

*Rhizopus circinans* van Tieghem

**1235** <- IFO 4718.

=IFO 4718

Medium PDA.

28°C

Synonym *Rhizopus reflexus*.

---

*Rhizopus oryzae* Went & Prinsen Geerligs

**1238** <- CLMR <- CBS.

Medium PDA.

28°C

Synonym *Rhizopus delemar*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1239** <- IFO 4730 <- GRIF (Y. Takeda).

=NBRC 4730

Medium PDA.

28°C

Synonym *Rhizopus delemar* var. *minimus*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1240** <- GRIF (Y. Takeda).

=NBRC 4775

Medium PDA.

28°C

Synonym *Rhizopus delemar* var. *minimus*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1243** <- IFO 4756 <- FAT <- GRIF (R. Nakazawa).

=NBRC 4756

Medium PDA.

28°C Mating type (-)

Synonym *Rhizopus formosaensis*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1244** <- GRIF (R. Nakazawa).

Medium PDA.

28°C

Synonym *Rhizopus formosaensis*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1247** <- GIB.

=IFO 4779

Medium PDA.

28°C

Synonym *Rhizopus japonicus*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1248** <- IFO 4780 <- HUT <- CLMR (H. Naganishi) From kaoliangchiu yeast cake.

=NBRC 4780

Medium PDA.

28°C

Synonym *Rhizopus japonicus*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1249** <- IFO 5409.

Medium PDA.

28°C

Synonym *Rhizopus japonicus*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1250** <- CLMR (H. Naganishi). From kyokushi.

Medium PDA.

28°C

Synonym *Rhizopus japonicus*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1252** <- IFO 5441 <- AHU R - 131 <- Japan Monopoly Corp.

=NBRC 5441 =AHU R-131

Medium PDA.

28°C

Synonym *Rhizopus javanicus*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1253** <- Sanraku - Ocean Co. Ltd. (Y.Takeda).

Medium PDA.

28°C

Synonym *Rhizopus javanicus* var. *kawasakiensis*.

---

***Rhizopus liquefaciens*** Yamazaki

**1256** <- M. Yamazaki.

Medium PDA.

28°C

Synonym

---

***Rhizopus microsporus*** van Tieghem

**1257** <- IFO 4719.

=IFO 4719

Medium PDA.

28°C

Synonym

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1258** <- IFO 4734 <- GRIF (Y. Takeda).

=NBRC 4734

Medium PDA.

28°C

Synonym *Rhizopus nodosus*.

---

***Rhizopus stolonifer*** (Ehrenberg : Fries) Vuillemin var. *stolonifer*

**1262** <- NI 1081.

Medium PDA.

28°C Mating type (+)

Synonym *Rhizopus nigricans*.

---

***Rhizopus stolonifer*** (Ehrenberg : Fries) Vuillemin var. *stolonifer*

**1263** <- NI 1082.

Medium PDA.

28°C Mating type (-)

Synonym *Rhizopus nigricans*.

---

*Rhizopus stolonifer* (Ehrenberg : Fries) Vuillemin var. *stolonifer*

1264 <- NI 1083.

Medium PDA.

28°C Mating type (+)

Synonym *Rhizopus nigricans*.

---

*Rhizopus oryzae* Went & Prinsen Geerligs

1269 <- NI 1086.

Medium PDA.

28°C

Synonym

---

*Rhizopus oryzae* Went & Prinsen Geerligs

1270 <- NI 1087.

Medium PDA.

28°C

Synonym

---

*Rhizopus oryzae* Went & Prinsen Geerligs

1272 <- CLMR.

=NBRC 4785

Medium PDA.

°C

Synonym

---

*Rhizopus oryzae* Went & Prinsen Geerligs

1273 <- IFO 4760.

Medium PDA.

28°C

Synonym *Rhizopus peka*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1275** <- IFO 4813.

Medium PDA.

28°C

Synonym *Rhizopus peka*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1277** <- IFO 4733.

Medium PDA.

28°C

Synonym *Rhizopus pseudochinensis*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1280** <- NI 1096.

Medium PDA.

28°C

Synonym *Rhizopus pseudochinensis*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1281** <- CLMR (H. Naganishi). From awamori.

Medium PDA.

28°C

Synonym *Rhizopus pseudochinensis*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1285** <- NI 1206.

Medium PDA.

28°C

Synonym *Rhizopus shanghaiensis*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1290** <- IFO 4716 <- GRIF <- CLMR (H. Naganishi). From kaoliangchui yeast cake.

=NBRC 4716

Medium PDA.

28°C

Synonym *Rhizopus tonkinensis*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1291** <- CLMR (H. Naganishi). From kyokushi.

=IFO 4797

Medium PDA.

28°C

Synonym *Rhizopus tokinensis*.

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

**1294** <- CLMR <- CBS <- CLMR (K. Saito).

=NBRC 4798

Medium PDA.

28°C

Synonym *Rhizopus tritici*.

---

***Synecephalastrum nigricans*** Vuillemin

**1299** <- NI 1197.

Medium PDA.

28°C Mating type (-)

Synonym

---

***Synecephalastrum racemosum*** (Cohn) Schr ter

**1300** <- NI 1117 <- CBS.

=NBRC 4828

Medium PDA.

28°C

Synonym *Mucor cinereum*.  
*Synecephalastrum cinereum*.

---

*Syncephalastrum racemosum* (Cohn) Schr ter

1301 <- NI 1162.

Medium PDA.

28°C

Synonym

---

*Syncephalastrum racemosum* (Cohn) Schr ter

1302 <- NI 1118.

Medium PDA.

28°C

Synonym

---

*Syncephalastrum racemosum* (Cohn) Schr ter

1303 <- CLMR (H. Naganishi). From air.

Medium PDA.

28°C

Synonym

---

*Syncephalastrum racemosum* (Cohn) Schr ter

1304 <- H. Naganishi. From dung.

Medium PDA.

28°C

Synonym

---

*Zygorhynchus moelleri* Vuillemin

1307 <- CLMR <- CBS.

=NBRC 4832

Medium PDA.

28°C

Synonym *Zygorhynchus dangeardii*.  
*Zygorhynchus vuilleminii*.

---

*Circinella umbellata* van Tieghem & Le Monnier

**1313** <- IFO 5842 (T. Hasegawa).

=NBRC 5842

Medium PDA.

28°C

Synonym *Circinella aspera*.

---

*Absidia coerulea* Bainier

**1316** <- IFO 5301 <- NI 1009 <- CBS.

=NBRC 5301 =JCM 5600

Medium PDA.

28°C Mating type (+)

Reference(2).

Synonym *Absidia orchidis*.

---

*Mortierella alpina* Peyronel

**1365** <- IFO 8568 <- IFO (K. Tubaki ; 1902-3).

=NBRC 8568

Medium PDA.

28°C

Synonym

---

*Mortierella elongata* Linnemann

**1366** <- IFO 8570 <- IFO (K. Tubaki; D-1-5).

=NBRC 8570

Medium PDA.

28°C

Synonym

---

*Mortierella alliacea* Linnemann

**1368** <- CBS 894.68. From alpine raw humus soil. Obergurgl. Tirol. Austria.

=CBS 894.68

Medium PDA.

28°C

Synonym

---

***Mortierella alliacea*** Linnemann

**1370** <- CBS 377.85. from *Pseudotsuga menziesii* root. West-Germany. 1985.

=CBS 377.85

Medium PDA.

20°C

Synonym

---

***Zygorhynchus moelleri*** Vuillemin

**1371** <- CLMR <- CBS.

=NBRC 4833

IFO Medium No.1

28°C

Synonym *Zygorhynchus dangeardii*.  
*Zygorhynchus vuilleminii*.

---

***Mucor circinelloides*** van Tieghem f. *circinelloides*

**1372** <- NBRC 4570 <- IFO 4570 <- HUT <- CLMR (H. Naganishi). From hoangchui yeast cake.

=HUT 1162? =NBRC 4570 =NRRL 13035

Medium PDA.

25°C

Synonym *Mucor circinelloides*  
*Mucor javanicus*  
*Mucor mandshuricus*  
*Mucor prainii*

$\alpha$ -Glucosidase;production

---

***Aspergillus candidus*** Link : Fries

**2002** <- CLMR (M. Yamazaki). From kyokushi

Medium PDA.

28°C

Synonym *Aspergillus albus* var. 1.

---

***Aspergillus candidus*** Link : Fries

**2003** <- IFO 4310 <- HUT <- CLMR <- M. Yamazaki (Chinese yeast cake).

=NBRC 4310

Medium PDA.

28°C

Synonym *Aspergillus albus* var. 1.  
*Aspergillus okazaki*.

---

***Petromyces alliaceus*** Malloch & Cain

**2004** <- NI 5554.

Medium PDA. 28°C

Synonym *Aspergillus alliaceus*.

---

***Aspergillus foetidus*** (Nakazawa) Thom & Raper

**2006** <- CLMR <- S. Usami.

=NBRC 4312 =RIB 2611

Medium PDA. 28°C

Synonym *Aspergillus aureus*.  
*Aspergillus awamori* f. *aureus*.

---

***Aspergillus awamori*** Nakazawa f. ***aureus*** (Nakazawa) Nehira

**2007** <- NI 5495.

Medium PDA. 28°C

Synonym *Aspergillus aureus* var. *acidus*.

---

***Aspergillus awamori*** Nakazawa f. ***aureus*** (Nakazawa) Nehira

**2008** <- NI 5496.

Medium PDA. 28°C

Synonym *Aspergillus aureus* var. *arevis*.

---

***Aspergillus awamori*** Nakazawa f. ***aureus*** (Nakazawa) Nehira

**2009** <- NI 5498.

Medium PDA. 28°C

Synonym *Aspergillus aureus* var. *murinus*.

---

*Aspergillus awamori* Nakazawa f. *aureus* (Nakazawa) Nehira  
2010 <- NI 5499.

Medium PDA. 28°C

Synonym *Aspergillus aureus* var. *pallidus*.

---

*Aspergillus niger* van Tieghem var. *awamori* (Nakazawa) AI-Musallam  
2014 <- CLMR (H. Naganishi). From awamori - koji.

Medium PDA. 28°C

Synonym *Aspergillus awamori*.

---

*Aspergillus niger* van Tieghem var. *awamori* (Nakazawa) AI-Musallam  
2015 <- CLMR <- S. Usami.

Medium PDA. 28°C

Synonym *Aspergillus awamori*.

---

*Aspergillus niger* van Tieghem  
2016 <- CLMR (H. Naganishi; strain 2). From Hachijojima kurokoji.

Medium PDA. 28°C

Synonym *Aspergillus batatae*.

---

*Aspergillus candidus* Link : Fries  
2022 <- CLMR.

Medium PDA. 28°C

Synonym

---

*Aspergillus carbonarius* (Bainier) Thom

2024 <- NI 5040 <- OUT <- CLMR.

Medium PDA.

28°C

Synonym

---

*Aspergillus clavatus* Desmazi res

2030 <- CLMR (H. Naganishi). From air.

Medium PDA.

28°C

Synonym

---

*Aspergillus foetidus* (Nakazawa) Thom & Raper

2032 <- NI 5494 <- ACTU (H. Iizuka).

Medium PDA.

28°C

Synonym

---

*Aspergillus fumigatus* Fresenius

2033 <- CLMR (H. Naganishi). From kaoliangchui "kyokushi".

Medium PDA.

28°C

BSL 2

Synonym

---

*Aspergillus fumigatus* Fresenius

2034 <- NI (H. Indo). From whooper swan

Medium PDA.

28°C

BSL 2

Synonym

---

*Eurotium chevalieri* Mangin

2036 <- CLMR (H. Naganishi). From kaoliangchui "kyokushi".

= IFM 42234

Medium PDA.

28°C

Synonym

*Aspergillus glaucus* (Micheli et Linnaeus : Fries) Link C.

Former name: *Aspergillus glaucus* var. *Nehiranonascus*.

---

*Eurotium chevalieri* Mangin

2038 <- CLMR (H. Naganishi). From kaoloangchui "kyokushi".

= IFM 42235

Medium PDA.

28°C

Synonym

Anamorph: *Aspergillus glaucus* (Micheli et Linnaeus : Fries)

Former name: *Aspergillus glaucus* var. *minimum*.

---

*Aspergillus awamori* Nakazawa f. *inuii* (Sakaguchi et al.) Nehira

2041 <- NI 5506.

Medium PDA.

28°C

Synonym *Aspergillus inuii*.

---

*Aspergillus kawachii* Kitahara & Yoshida

2047 <- NI 5547 <- K. Kitahara.

Medium PDA.

28°C

Synonym

---

*Aspergillus niger* van Tieghem var. *awamori* (Nakazawa) AI-Musallam

2048 <- CLMR <- Blochwitz.

Medium PDA.

28°C

Synonym *Aspergillus luchuensis*.

*Aspergillus awamori*.

---

*Aspergillus niger* van Tieghem

2049 <- NI 5508 <- ACTU (H. Iizuka).

Medium PDA.

28°C

Synonym *Aspergillus miyakoensis*.

---

*Aspergillus niger* van Tieghem mut. *cinnamomeus* (Schiemann) Thom & Raper

2054 <- NI 5538 <- IFO <- GRIF <- USDA.

Medium PDA.

28°C

Synonym *Aspergillus cinnamomeus*.

---

*Aspergillus niger* van Tieghem mut. *schiemanni* (Schiemann) Thom & Raper

2055 <- NI 5542 <- IFO <- GRIF <- CBS.

Medium PDA.

28°C

Synonym *Aspergillus schiemanni*.

---

*Fennellia nivea* (Wiley & Simmons) Samson

2057 <- NI 5545 <- IFO <- CBS <- T. A. Blochwitz.

Medium PDA.

28°C

Synonym *Emericella nivea*.

Anamorph: *Aspergillus niveus*.

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2063 <- H. Naganishi. From tamari-miso.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2064 <- H. Naganishi. From tamari-tempei.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries f. *globosus* (Sakaguchi & Yamada) Nehira

2066 <- NI 5483.

Medium PDA.

28°C

Synonym *Aspergillus flavus* var. *oryzae* f. *globosus*.

---

*Aspergillus flavus* Link : Fries f. *globosus* (Sakaguchi & Yamada) Nehira

2067 <- NI 5287.

Medium PDA.

28°C

Synonym *Aspergillus oryzae* var. *microsporus*.

*Aspergillus flavus* var. *oryzae* f. *microsporus*.

---

*Aspergillus flavus* Link : Fries f. *globosus* (Sakaguchi & Yamada) Nehira

2069 <- NI 5525 <- FES.

Medium PDA.

28°C

Synonym *Aspergillus oryzae* var. *microsporus*.

*Aspergillus flavus* var. *oryzae* f. *microsporus*.

---

*Aspergillus panamensis* Raper & Thom

2074 <- NI 5564.

Medium PDA.

28°C

Synonym

---

*Aspergillus parasiticus* Speare

2075 <- CLMR <- NCTC.

Medium PDA.

28°C

Synonym

---

*Aspergillus penicillioides* Spegazzini

2077 <- NI 5565.

Medium PDA.

28°C

Synonym *Aspergillus vitricola*.

---

*Aspergillus niger* van Tieghem

2078 <- NI 5566 <- CBS <- ATCC 363.

=NBRC 6648 =IAM 2573 =JCM 22360 =ATCC 10698 =CBS  
126.49

Medium PDA.

28°C

Synonym *Aspergillus phoenicis*.

---

*Eurotium pseudoglaucum* (Blochwitz) Malloch & Cain

2081 <- NI 5568.

Medium PDA.

28°C

Synonym *Aspergillus pseudoglaucus*.

---

*Aspergillus niger* van Tieghem

2082 <- CLMR.

Medium PDA.

28°C

Synonym *Aspergillus pulverulentus*.

---

*Aspergillus niger* van Tieghem

2083 <- CLMR <- Oshima.

=JCM 5630

Medium PDA.

28°C

Synonym *Aspergillus pulverulentus*.

---

*Aspergillus ochraceus* Wilhelm

2086 <- CLMR <- A. Blochwitz.

Medium PDA.

28°C

Synonym *Aspergillus rehmi*.

---

*Emericella rugulosa* (Thom & Raper) C.R.Benjamin

2090 <- NI 5571 <- CBS.

Medium PDA.

28°C

Synonym *Aspergillus rugulosus*.

---

*Aspergillus sclerotiorum* Huber

2092 <- NI 5572 <- CBS (Huber).

Medium PDA.

28°C

Synonym

---

*Aspergillus parasiticus* Speare f. *sojaj* (Sakaguchi & Yamada) Nehira

2093 <- IFO.

Medium PDA.

28°C

Synonym *Aspergillus sojaj*.

---

*Aspergillus parasiticus* Speare f. *sojae* (Sakaguchi & Yamada) Nehira

2094 <- NI 5596.

Medium PDA. 28°C

Synonym *Aspergillus sojae*.

---

*Aspergillus terreus* Thom apud Thom & Church

2099 <- NI 5583.

Medium PDA. 28°C

Synonym

---

*Eurotium herbariorum* (Wiggers : Fries) Link

2101 <- NI 5574 <- CBS <- K. B. Raper.

=IAM 2828 =JCM 22411

Medium PDA. 28°C

Synonym *Aspergillus umbrosus*.

---

*Emericella unguis* Malloch & Cain

2102 <- NI 5575 <- CBS.

=NBRC 8087 =IAM 2581 =JCM 22362

Medium PDA. 28°C

Synonym *Aspergillus unguis*.

Anamorph: *Aspergillus unguis*.

---

*Aspergillus awamori* Nakazawa f. *usamii* (Sakaguchi et al.) Nehira

2103 <- GIB.

Medium PDA. 28°C

Synonym *Aspergillus usamii*.

---

*Aspergillus awamori* Nakazawa f. *usamii* (Sakaguchi et al.) Nehira

2104 <- NI 5511.

Medium PDA.

28°C

Synonym *Aspergillus usamii*.

---

*Aspergillus awamori* Nakazawa f. *usamii* (Sakaguchi et al.) Nehira

2105 <- CLMR <- S. Usami.

=NBRC 4314 =RIB 2604

Medium PDA.

28°C

Synonym *Aspergillus usamii*.

---

*Aspergillus awamori* Nakazawa f. *usamii* (Sakaguchi et al.) Nehira

2107 <- H. Naganishi.

Medium PDA.

28°C

Synonym *Aspergillus usamii*.

---

*Aspergillus ustus* (Bainier) Thom & Church

2108 <- NI 5527 <- FES (H. Kawada).

Medium PDA.

28°C

Synonym

---

*Aspergillus varicolor* (Berkeley & Broome) Thom & Raper

2109 <- NI 5576 <- CBS (Verona).

=IAM 2582 =JCM 22363

Medium PDA.

28°C

Synonym

---

*Aspergillus wentii* Wehmer

2112 <- H. Naganishi. From soy-koji.

Medium PDA.

28°C

Synonym

---

*Aspergillus varians* Wehmer emend. Raper & Fennell

2130 <- Oka <- IAM Z-8-12.

Medium PDA.

28°C

Synonym

---

*Aspergillus parasiticus* Speare

2148 <- OUT <- Kagawa Soy Exp. St. (Strain 3).

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2149 <- OUT <- Kagawa Soy Exp. St. (strain y).

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2155 <- OUT (K. Saito). From Higuchi "sake-shin".

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2180 <- NS 87. From corn.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2181 <- NS 88. From sliced sweet potato.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries f. *globosus* (Sakaguchi & Yamada) Nehira

2182 <- NS 89. From millet "moromi".

Medium PDA.

28°C

Synonym *Aspergillus flavus* var. *oryzae* f. *globosus*.

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2183 <- NS 90. From "fugu".

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2188 <- NS 95. From tanekoji.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2189 <- NS 96a. From tanekoji.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries f. *globosus* (Sakaguchi & Yamada) Nehira

2191 <- NS 97. From Konno tanekoji.

Medium PDA.

28°C

Synonym *Aspergillus flavus* var. *oryzae* f. *magnasporus*.

---

*Aspergillus flavus* Link : Fries f. *globosus* (Sakaguchi & Yamada) Nehira

2192 <- NS 98. From Higuchi tanekoji.

Medium PDA.

28°C

Synonym *Aspergillus flavus* var. *oryzae* f. *magnasporus*.

---

*Aspergillus parasiticus* Speare

2193 <- NS 113. From kyokushi.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2195 <- NS 115. From kyokushi.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2198** <- NS 118. From kyokushi.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2199** <- NS 119. From kyokushi.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2200** <- NS 120. From kyokushi.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2201** <- NS 121. From shochu-moromi.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries f. *globosus* (Sakaguchi & Yamada) Nehira

**2202** <- NS 122. From shochu-moromi.

Medium PDA.

28°C

Synonym *Aspergillus flavus* var. *oryzae* f. *magnasporus*.

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2208** <- NS 128. From kyokushi.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2209** <- NI (T. Nehira). From Thailand spicery.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2210** <- NI (T. Nehira). From "bakumonto".

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2211** <- NI (T. Nehira). From soil.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2212** <- NI (T. Nehira). From chaulmoogra seeds.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2218 <- NI (T. Nehira).

Medium PDA.

28°C

Synonym

---

*Aspergillus parasiticus* Speare

2219 <- NI (T. Nehira). From crude drug.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2220 <- NI (T. Nehira). From dry herring.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2227 <- NI (T. Nehira). From potato.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2229 <- NI (T. Nehira). From wooden door.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2233 <- NI (T. Nehira). From walnut.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2234 <- NI (T. Nehira). From tea powder.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries f. *globosus* (Sakaguchi & Yamada) Nehira

2235 <- NI (T. Nehira). From green tea.

Medium PDA.

28°C

Synonym *Aspergillus flavus* var. *oryzae* f. *globosus*.

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2236 <- NI <- Shimane Ind. Exp. St. From "amazake - tanekoji".

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

2237 <- NI (T. Nehira). From air.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2238** <- NI (T. Nehira). From cheese.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2239** <- NI (T. Nehira). From butter.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2241** <- NI (T. Nehira). From ink stick "sumi".

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries var. *oryzae* (Ahlburg) Saito

**2242** <- NIK.

Medium PDA.

28°C

Synonym

---

*Aspergillus flavus* Link : Fries

**2322** <- IFO 4053 <- GRIF <- Thom 108 <- CBS.

Medium PDA.

28°C

Synonym

---

*Aspergillus aculeatus*

**2365** <- National Institute of Advanced Industrial Science and Technology chugoku; Hiroyuki Inoue. From Humus Soil.Tokura Akiruno Tokyo Japan. Isolated by Dr. Chiaki Kitao.

KIF78

PDA or Czapek-Dox or 30°C

Synonym

A newly isolated hemicellulase-producing fungus for second-  
Hemicellulase production.  
Enzymatic hydrolysis of lignocellulosic biomass.

---

*Aspergillus niger*

**2366** <- National Institute of Advanced Industrial Science and Technology chugoku; Hiroyuki Inoue. From Humus Soil. Okuhida-Onseno Takayama Gifu Japan. Isolated by Dr. Chiaki Kitao.

KIF109

PDA or Czapek-Dox or 30°C

Synonym

Hemicellulase production.  
Enzymatic hydrolysis of lignocellulosic biomass.

---

*Chaetomidium tottori* Nishikawa

**4005** <- IFO 4448.

=IFO 4448

Medium PDA.

28°C

Synonym

---

*Monascus purpureus* Went

**4011** <- GRIF (K. Sato).

Medium PDA.

28°C

Synonym *Monascus anka*.

---

*Monascus purpureus* Went

**4012** <- GRIF <- CBS.

Medium PDA.

28°C

Synonym

---

*Paecilomyces variotii* Bainier

4018 <- NIK.

Medium PDA. 28°C

Synonym

---

*Gelasinospora reticulata* (Booth & Ebben) Cailleux

4039 <- NIK (K. Minoura).

Medium PDA. 28°C

Synonym *Anixiella reticulispora*.  
*Anixiella reticulata*.

---

*Emericella nidulans* (Eidam) Vuillemin var. *nidulans*

4091 <- From soil. (K. Minoura)

=NBRC 30062

Medium PDA. 28°C

Synonym *Sterigmatocystis nidulans*.

Anamorph: *Aspergillus nidulans*.

---

*Emericella nidulans* (Eidam) Vuillemin var. *acristata* (Fennell & Raper) Subramanian

4092 <- K. Minoura. From soil. Drivertol. Nepal.

=NBRC 30063

Medium PDA. 28°C  
Reference(9).

Synonym *Sterigmatocystis nidulans*.

Anamorph: *Aspergillus nidulans*.

---

*Talaromyces trachyspermus* (Shear) Stolk et Samson

4093 <- K. Minoura. From soil. Hitauda. Nepal.

=NBRC 30066

Medium PDA. 28°C  
Reference(9).

Synonym *Arachniotus trachyspermus*.  
*Penicillium spiculisorum*.

Anamorph: *Penicillium lehmanii*.

---

*Talaromyces trachyspermus* (Shear) Stolck & Samson

4094 <- From soil. Ureli. Nepal.

Medium PDA.

28°C

Synonym

---

*Corynascus sepedonium* (Emmons) von Arx

4095 <- K. Minoura. From soil. Drivertol. Nepal.

=NBRC 30067

Medium PDA.

28°C

Reference(9).

Synonym *Thielavia sepedonium*.

---

*Thielavia terricola* (Gilman & Abbott) Emmons

4096 <- K. Minoura. From soil. Bhairhawa. Nepal.

=NBRC 30068

Medium PDA.

28°C

Reference(9).

Synonym *Thielavia terricola* var. *minor*.

---

*Neocosmospora vasinfecta* E.F.Smith

4097 <- K. Minoura. From soil. Hitauda. Nepal.

=NBRC 30064

Medium PDA.

28°C

Reference(9).

Synonym

---

*Chaetomium indicum* Corda

4099 <- K. Minoura. From soil. Daman. Nepal.

=NBRC 30060

Medium PDA.

28°C

Synonym

---

*Chaetomium seminudum* Ames

4100 <- K. Minoura. From soil. Partsucarl. Nepal.

=NBRC 30061

Medium PDA.  
Reference(9).

28°C

Synonym

---

*Preussia indica* (Chattopadhyay & Das Grupta) Cain

4101 <- K. Minoura. From soil. Nepal.

=NBRC 30069

Medium PDA.  
Reference(9).

28°C

Synonym

---

*Preussia indica* (Chattopadhyay & Das Grupta) Cain

4102 <- K. Minoura. From soil. Nepal.

Medium PDA.

28°C

Synonym

---

*Byssochlamys nivea* Westling

4104 <- T. Morinaga. From soil. Bhairhawa. Nepal.

=NBRC 30569 =JCM 12788 =ATCC 34562

Medium PDA.  
Reference(6).

28°C

Synonym

---

*Eurotium chevalieri* Mangin

4105 <- T. Morinaga. From soil (No. 176). Dhanuknahak. Nepal.

=NBRC 30570 =ATCC 34572

Medium PDA.  
Reference(6).

28°C

Synonym *Aspergillus chevalieri*.

Anamorph: *Aspergillus chevalieri*.

---

*Neosartorya fischeri* (Wehmer) Malloch & Cain var. ***glabra*** (Fennell & Raper) Malloch & Cain

4106 <- T. Morinaga. From soil (No. 41). Shiauwa. Nepal.

=NBRC 30571

Medium PDA. 28°C  
Reference(6).

Synonym

Anamorph: *Aspergillus fischeri* var. *glaber*

---

*Neosartorya fischeri* (Wehmer) Malloch & Cain var. ***glabra*** (Fennell & Raper) Malloch & Cain

4107 <- T. Morinaga. From soil (No. 36). Damauli. Nepal.

=NBRC 30572

Medium PDA. 28°C  
Reference(6).

Synonym

Anamorph: *Aspergillus fischeri* var. *glaber*

---

*Neosartorya fischeri* (Wehmer) Malloch & Cain var. ***spinosa*** (Raper & Fennell) Malloch & Cain

4108 <- T. Morinaga. From soil (No. 113). Chanewa. Nepal.

=NBRC 30573 =ATCC 34561

Medium PDA. 28°C  
Reference(6).

Synonym *Aspergillus fischeri* var. *verrucosus*.

Anamorph: *Aspergillus fischeri* var. *spinosus*

---

*Talaromyces flavus* (Klocker) Stolk & Samson var. ***flavus***

4109 <- T. Morinaga. From soil (No. 41). Shiauwa. Nepal.

=NBRC 30574 =ATCC 34594

Medium PDA. 28°C  
Reference(6).

Synonym

Anamorph: *Penicillium vermiculatum*.

---

*Talaromyces helicus* C.R.Benjamin apud Stolk & Samson var. ***helicus***

4110 <- From soil. Rhmdighat. Nepal.

Medium PDA. 28°C

Synonym

---

*Talaromyces wortmannii* C.R.Benjamin apud Stolk & Samson

4111 <- T. Morinaga. From soil. Katerunga. Nepal.

=IFM 42225

Medium PDA.

28°C

Synonym

---

*Pithoascus intermedius* (Emmons & Dodge) von Arx

4112 <- T. Morinaga. From soil (No. 9). Kathmandu. Nepal.

=NBRC 30575 =ATCC 34630

Medium PDA.

28°C

Reference(6).

Synonym *Microascus intermedius*.

---

*Chaetomium cochliodes* Palliser

4113 <- T. Morinaga. From soil (No. 133). Kathmandu. Nepal.

=NBRC 30576 =ATCC 34513

Medium PDA.

28°C

Reference(6).

Synonym *Chaetomium flexuosum*.

---

*Dichotomomyces cejpai* (Milko) Scott var. *cejpai*

4116 <- IFO 8429 <- TRTC <- J. H. Warcup (11242-3).

=NBRC 8429

Medium PDA.

28°C

Synonym

*Former name: Arachnothecium saturinum.*

---

*Monascus ruber* van Tieghem

4117 <- IFO 7537 <- LC (J. Nicot).

=NBRC 7537

Medium PDA.

28°C

Synonym *Monascus fuliginosis*.

*Monascus vitreus*.

---

***Monascus ruber*** van Tieghem

**4119** <- IFO 9203 <- NHL 2399 (S. Udagawa) <- M. Takada. From milled rice.

=NBRC 9203 =IAM 14768

Medium PDA.

28°C

Synonym *Monascus fuliginosis*.  
*Monascus vitreus*.

---

***Penicillium albicans*** Bainier

**4120** <- IFO 6771 <- NI 6309 <- CBS 342.54 <- G. Smith.

=NBRC 6771 =CBS 342.54

Medium PDA.

28°C

Synonym

---

***Penicillium decumbens*** Thom

**4121** <- IFO 7091 <- IFO (I. Asano).

=NBRC 7091

Medium PDA.

28°C

Synonym

---

***Penicillium expansum*** Link ex S.F. Gray

**4122** <- IFO 7604 <- IFO (I. Asano).

=NBRC 7604

Medium PDA.

28°C

Synonym

---

***Penicillium italicum*** Wehmer

**4123** <- IFO 7886 <- IFO (I. Asano).

=NBRC 7886

Medium PDA.

28°C

Synonym

---

*Penicillium janthinellum* Biourge

4124 <- IFO 7909 <- IFO (I. Asano; S-54-4).

=NBRC 7909

Medium PDA.

28°C

Synonym

---

*Penicillium brasilianum* Batista

4125 <- NHL 6172 (S. Udagawa; Aracchis hypogaea).

Medium PDA.

28°C

Synonym *Penicillium paraherquei*.

---

*Talaromyces udagawae* Stolk & Samson

4128 <- NHL 6089 (S. Udagawa). From soil. Japan.

=HUT4130 =NBRC 8808 =CBS 579.72

Medium PDA.

28°C

Reference(33).

Synonym

---

*Talaromyces luteus* (Saccardo)Stolk & Samson

4130 <- IFO 8808 <- NHL 6089 (S. Udagawa).

=HUT 4128 =NBRC 8808 =CBS 579.72

Medium PDA.

28°C

Synonym

---

*Trichocoma paradoxa* Junghuhn

4131 <- IFO 6765 <- NI 2079.

=NBRC 6765 =IAM 14601

Medium PDA.

28°C

Synonym

---

***Penicillium vulpinum*** (Cooke & Masee) Seifert & Samson

**4132** <- IFO 5740 <- FAT 554 (S. Abe).

=NBRC 5740

Medium PDA.

28°C

Synonym *Penicillium claviforme*.

---

***Penicillium herquei*** Bainier & Sartory

**4133** <- IFO 4674 <- IFO (T. Hasegawa).

=NBRC 4674

Medium PDA.

28°C

Synonym

---

***Penicillium purpurescens*** (Sopp) Raper & Thom

**4134** <- IFO 6033 <- FAT 576 (A. Abe).

=NBRC 6033

Medium PDA.

28°C

Synonym

---

***Penicillium digitatum*** Saccardo

**4137** <- NHL 69-SA-124.

Medium PDA.

28°C

Synonym

---

***Penicillium meleagrinum*** Biourge

**4138** <- NHL 69-HO-8.

Medium PDA.

28°C

Synonym

---

*Geosmithia putterillii* (Thom) Pitt

4139 <- NHL 69-GO-54.

=HUT 4126

Medium PDA.

28°C

Synonym *Penicillium putterillii*.

---

*Pseudeurotium zonatum* van Beyma

4141 <- T. Morinaga. From soil. Rantan. Nepal.

=NBRC 30579 =ATCC 36545

Medium PDA.

28°C

Reference(22).

Synonym

---

*Coniochaetidium savoryi* (Booth) Malloch & Cain

4143 <- From soil. Shikett. Nepal.

Medium PDA.

28°C

Synonym

---

*Preussia isomera* Cain

4145 <- T. Morinaga. From soil (No. 217). Kimche. Nepal.

=NBRC 30581 =ATCC 36548

Medium PDA.

28°C

Reference(22).

Synonym

---

*Hamigera avellanea* Stolk & Samson

4147 <- T. Morinaga. From soil (No. 111). Chanewa. Nepal.

=NBRC 30583 =ATCC 36550

Medium PDA.

28°C

Reference(22).

Synonym

Anamorph: *Penicillium avellaneum*

---

*Neosartorya fischeri* (Wehmer) Malloch & Cain var. *glabra* (Fennell & Raper) Malloch & Cain

4152 <- Koike. From soil.

Medium PDA.

28°C

Synonym

Anamorph: *Aspergillus fischeri* var. *spinosus*

---

*Talaromyces flavus* (Klocker) Stolk & Samson var. *flavus*

4153 <- Koike. From soil. Thailand.

Medium PDA.

28°C

Synonym

---

*Chaetomium fusiforme* Chivers

4155 <- From deer dung.

Medium PDA.

28°C

Synonym

---

*Chaetomium* SP.

4183 <-NBRC 105678 <-Meiji Univ. (T. Uozumi, KAM1) From Feces of Lumbricina.

=NBRC 105678

°C

Synonym

Cellulase;production

---

*Chaetomium globosum*

4184 <- NBRC 6347

=NBRC 6347

°C

Synonym

---

***Wardomyces columbinus*** (Demelius) Hennebert

4185<sup>T</sup> <- NBRC 33055 <- IFO 33055 <- UAMH 7847 (S.P. Abbott, OHS 209). From indoor air of honeybee facility. Canada.

=NBRC 33055

°C

Synonym

Cellulase;production

---

***Penicillium pinophilum*** Hedgcock

4186 <-NBRC 6345 <-IFO 6345 <- IAM <- ATCC 9644 <- W.H. Weston. From Radio set. Papua New Guinea.

=NBRC 6345 =JCM 5593 =IAM 7317 =ATCC 9644 =CBS 170.60  
=IMI 87160 ii =NRRL A-5245 =BCRC 31621 =DSM 1960 =FERM

Malt Extract Agar

25°C

Synonym

JIS Z 2911:2010;test

JIS A 5756:2006;test

ISO/FDIS 13125:2012(E);test

Former name: *Penicillium funiculosum* until May 2006

---

***Penicillium* sp.**

4187 <-NBRC 101300 <-Yamaguchi Univ. (K. Fujii; OP-1). From Orange peel. Fukuoka Japan.

=NBRC 101300

Medium PDA.

25°C

Synonym

Cellulase;production

Pectinase;production

Orange peel;degradation

---

***Schizophyllum commune*** Fries

4188 <-NBRC 4928 <-IFO 4928 <- FAT (T. Asai)

=NBRC 4928

Medium PDA.

25°C

Synonym

Compactin, MonacolinK;hydroxylation

---

***Myceliophthora thermophila*** (Apinis) van Oorschot

4189 <- NBRC 9219 <- IFO 9219 <- AKU (A. Ueyama; 3-3-45-a)

=NBRC 9219

°C

Synonym *Sporotrichum thermophile*

---

***Rhizopus oryzae*** Went & Prinsen Geerligs

4190<sup>T</sup> <- NBRC 9364 <- IFO 9364 <- QM 1032 From cotton seed. Oklahoma. USA.

=NBRC 9364 =ATCC 24563 =IMI 83711 =NRRL A-12916

°C

Synonym *Rhizopus acidus* *R. arrhizus* *R. batatas* *R. boreas* *R. formosaensis* *R. fusiformis* *R. hangchow* *R. japonicus* *R. kansho* *R. kasanensis* *R. liquefaciens* *R. maydis* *R. mochi* *R. nodosus* *R. pseudochinensis* *R. thermosus* *R. tonkinensis* *R. tritici*  $\beta$ -1,3-glucanase;production  
Laminarinase;production  
Lipase;production

---

***Fusarium oxysporum*** Schlechtendahl emend. Snyder & Hansen fsp. ***narcissi*** (Cooke & Massey) Snyder & Hansen

5012 <- IFO 5265 <- NARI (H. Kurata; F-4).

=NBRC 5265

Medium PDA.

28°C

Synonym *Fusarium bulbigenum*.

---

***Fusarium solani*** (Martius) Appel & Wollenweber emend. Snyder & Hansen

5013 <- IFO 5232 <- KYA (H. Yoshii).

=NBRC 5232

Medium PDA.

28°C

Synonym

---

***Fusarium oxysporum*** Schlechtendahl emend. Snyder & Hansen fsp. ***vasinfectum*** (Atkinson) Snyder & Hansen

5015 <- IFO 4472 <- KYA (H. Yoshii).

=NBRC 4472

Medium PDA.

28°C

Synonym

---

***Fusarium roseum*** Link emend. Snyder & Hansen

5016 <- IFO 5421.

=IFO 5421 =IFM 40715 =JCM 22443

Medium PDA.

28°C

Synonym

---

*Geotrichum candidum* Link : Persoon emend. Carmichael

5022 <- CLMR (H. Naganishi).

Medium PDA. °C

Synonym *Oidium lactis*.

Teleomorph: *Endomyces geotrichum*.

---

*Sachsia suaveolens* Lindner

5029 <- NI 4092.

Medium PDA. 28°C BSL 2

Synonym *Sachsia suaveolens*.  
*Cladosporium suaveolens*.

---

*Spiroidium fuscum* Saito

5030 <- NI (K. Saito).

Medium PDA. 28°C

Synonym

---

*Cephalophora irregularis* Thaxter

5111 <- Nitta. From soil. Bangkok.

Medium PDA. 28°C

Synonym

---

*Drechslera hawaiiensis* (Bugnicourt) Subramanian & Jain ex Ellis

5115 <- Nitta. From soil. Bangkok.

Medium PDA. 28°C

Synonym

---

*Gliocladium viride* Matruchot

5117 <- Nitta. From soil. Singapore.

Medium PDA.

28°C

Synonym *Gliocladium deliquesces*.

---

*Paecilomyces variotii* Bainier

5118 <- Nitta. From soil.

Medium PDA.

28°C

Synonym

---

*Scolecobasidium humicola* Barron & Busch

5119 <- Nitta. From soil. Bangkok.

Medium PDA.

28°C

Synonym

---

*Scolecobasidium variabile* Barron & Busch

5120 <- Nitta. From soil. Hong Kong.

Medium PDA.

28°C

Synonym

---

*Stachybotrys chartarum* (Ehrenberg) Hughes

5121 <- Nitta. From soil. Bangkok.

Medium PDA.

28°C

Synonym *Stachybotrys atra*.

---

***Wardomyces simplex*** Sugiyama et al.

**5123** <- Nitta. From soi. Hong Kong.

=ATCC 42629

Medium PDA.

28°C

Synonym *Wardomyces dimerus*.

Anamorph: *Gamsia dimera* (Gams) Morele

---

***Acrophialophora levis*** Samson & Tariq Mahmood

**5129** <- T. Morinaga. From soil. Singapore. (1977).

=ATCC 42628

Medium PDA.

28°C

Synonym

---

***Trichoderma asperellum***

**5132** <- National Institute of Advanced Industrial Science and Technology chugoku; Hiroyuki Inoue. From Humus Soil. Kotubo Kure Hiroshima Japan. Isolated by Dr. Chiaki Kitao.

KIF125

PDA or Czapek-Dox 30°C

World J. Microbiol. Biotechnol. 32:186 (2016)

Synonym

Hemicellulase production.

Enzymatic hydrolysis of lignocellulosic biomass.

---

***Acremonium luzulae*** (Fuckel) W.Gams

**5201** <- IFO 30343 <- BUCSAV (V. Holubova - Jechova; 56). From rotten wood of *Fraxinus angustifolia*.

=NBRC 30343

Medium PDA.

24°C

Synonym

---

***Acremonium luzulae*** (Fuckel) W.Gams

**5202** <- IFO 30535 <- Chem. Tech. Univ. Techh. Sci. Budapest <- BKM F-1168 (L. A. Beljakova). From work of art. USSR.

=NBRC 30535 =ATCC 18665 =CBS 495.67

Medium PDA.

24°C

Reference(39).

Synonym

*Former name: Fusidium viride.*

---

***Zalerion maritima*** (Linder) Anastasiou

**5203** <- IFO 32164 <- IFO (A. Nakagiri; AN-674) <- Inst. Biol. Sci. Univ. Tsukuba (A. Nakagiri; AN-674). From submerged beech wood.

=NBRC 32164

IFO Medium No.13. 24°C

Synonym *Helicoma maritimum*.  
*Lulwoana uniseptata*.  
*Zalerion maritimum*.

Teleomorph: *Lulworthia uniseptata*.

---

***Bjerkandera adusta*** (Willdenow : Fries) Karsten

**5204** <- IFO 4983 <- IFO (M. Abe).

=NBRC 4983

Medium PDA. 24°C

Synonym *Polyporus adustus*.

---

***Neurospora crassa*** Shear & Dodge

**5205** <- IFO 6067 <- NI 2124 <- IMI 53239 ii <- ATCC 10337 <- California Inst. Tech. (G. W. Beadle; Abb-12).

=NBRC 6067 =IFM 41080 =ATCC 10337

IFO Medium No.1. 24°C Mating type (a)

Synonym

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***Neurospora crassa*** Shear & Dodge

**5206** <- IFO 6068 <- NI 2123 <- IMI 53238 ii <- ATCC 10336 <- California Inst. Tech. (G. W. Beadle; Abb-4). California. USA.

=NBRC 6068 =IFM 41081 =ATCC 10336 =CBS 304.59

IFO Medium No.1. 24°C Mating type (A)

Synonym

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***Ustilago maydis*** (de Candolle) Corda

**5207** <- IFO 5346 <- NIAS (H. Kurata; U-1).

=NBRC 5346

IFO Medium No.1. 24°C

Synonym *Ustilago zeae*.

2-Hydroxyparaconic acid production.  
Itaconic acid production. Itatartanic acid production.  
Malic acid production.

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*Ustilago maydis* (de Candolle) Corda

5208 <- IFO 6907 <- NI 3156 <- Miyazaki Univ. (S. Hirata).

=NBRC 6907 =IFM 48203

IFO Medium No.1. 24°C

Synonym *Ustilago zeae*.

2-Hydroxyparaconic acid production.  
Itaconic acid production. Itatartanic acid production.  
Malic acid production.

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*Alternaria alternata* (Fries) Keissler

5209 <- NBRC 100243 <-Tokyo Univ. Agri. (Y. Hirooka. TPP-suga35) From dead leaf. *Rhododendron japonicum*.

=NBRC 102243

Medium PDA. 25°C

Synonym *Alternaria tenuis*

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*Pythium ultimum* Trow

5210 <=NBRC 100125 (K. Kageyama. Py55). From sugar beet. Hokkaido. Japan.

=NBRC 100125

Medium PDA. 25°C

Synonym

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*Lindra thalassiae* Orpurt et al.

5211 <=NBRC 106645 (A. Nakagiri. AN-1796). From Sea foam. Hoshizuna Beach Uehara Iriomote Island. Okinawa Pref. Japan.

=NBRC 106645

Seawater Starch Agar 25°C

Synonym

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*Trichoderma reesei* Simmons

5212<sup>T</sup> <- NBRC 31326 <- IFO 31326 <- ATCC 13631 <- QM 6a (D.I. Fennell). From Cotton duck shelter. Bougainville Island. Solomon Islands.

=NBRC 31326 =ATCC 13631 =IMI 45548 =CBS 383.78

Medium PDA. 25°C

Synonym

Cellulase;production  
 $\beta$ -1.3-D-Glucanase;production

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