



Figure S1. Phylogenetic tree based on ITS sequences from 74 *Colletotrichum* isolates of walnut anthracnose obtained in this study.

Table S1. Grading standard for diseased degree on walnut leaves.

Level	Lesion area	Representative
0	No lesion	0
I	0 - 8%	1
II	8% - 16%	2
III	16% - 24%	3
IV	24% - 32%	4
V	above 32%	5

Table S2. Grading standard for diseased degree on walnut fruits.

Level	Lesion area	Representative
0	No lesion	0
I	0 - 20%	1
II	20% - 40%	2
III	40% - 60%	3
IV	60% - 80%	4
V	above 80%	5

Table S3. Model strains and sequences of *Colletotrichum* used in this study for phylogenetic analysis.

Species	Culture*	Host	Country	GenBank accession number					
				ITS	GAPDH	CAL	ACT	CHS-1	TUB2
<i>C. acutatum</i>	CBS 112996*	<i>Carica papaya</i>	Australia	JQ005776	JQ948677		JQ005839	JQ005797	JQ005860
<i>C. aenigma</i>	ICMP 18608*	<i>Persea</i>	Israel	JX010244	JX010044	JX009683	JX009443	JX009774	JX010389
		<i>americana</i>							
	ICMP 18686	<i>Pyrus pyrifolia</i>	Japan	JX010243	JX009913	JX009684	JX009519	JX009789	JX010390
<i>C. aeshynomenes</i>	ICMP 17673*	<i>Aeshynomene</i>	USA	JX010176	JX009930	JX009721	JX009483	JX009799	JX010392
		<i>virginica</i>							
<i>C. alatae</i>	CBS 304.67*	<i>Dioscorea alata</i>	India	JX010190	JX009990	JX009738	JX009471	JX009837	JX010383
<i>C. alienum</i>	ICMP 18691	<i>Persea</i>	Australia	JX010217	JX010018	JX009664	JX009580	JX009754	JX010385
		<i>americana</i>							
	ICMP 12071*	<i>Malus</i>	New Zealand	JX010251	JX010028	JX009654	JX009572	JX009882	JX010411
		<i>domestica</i>							
<i>C. aotearoa</i>	ICMP 18537*	<i>Coprosma</i> sp.	New Zealand	JX010205	JX010005	JX009611	JX009564	JX009853	JX010420
<i>C. asianum</i>	ICMP 18580*	<i>Coffea arabica</i>	Thailand	FJ972612	JX010053	FJ917506	JX009584	JX009867	JX010406
<i>C. boninense</i>	MAFF 305972*	<i>Crinum</i>	Japan	JX010292	JX009905		JX009583	JX009827	
		<i>asiaticum</i>							
		var.sinicum							
	CBS 123755*	<i>Crinum</i>	Japan	JQ005153	JQ005240	JQ005674	JQ005501	JQ005327	JQ005588
		<i>asiaticum</i>							
		var.sinicum							
<i>C. brevisporum</i>	BCC 38876*	<i>Neoregalia</i> sp. leaf	Thailand	JN050238	JN050227		JN050216		JN050244

<i>C. cacao</i>	CBS 119297*	<i>Theobroma cacao</i>	Costa Rica	MG600772	MG600832		MG600976	MG600878	MG601039
<i>C. cattleyicola</i>	CBS 170.49*	<i>Cattleya</i> sp.	Belgium	MG600758	MG600819		MG600963	MG600866	MG601025
<i>C. clidemiae</i>	ICMP 18658*	<i>Clidemia hirta</i>	USA, Hawaii	JX010265	JX009989	JX009645	JX009537	JX009877	JX010438
<i>C. cliviicola</i>	CBS 125375*	<i>Clivia miniata</i>	China	MG600733	MG600795		MG600939	MG600850	MG601000
<i>C. cordylinicola</i>	MFLUCC 090551*	<i>Cordyline fruticosa</i>	Thailand	JX010226	JX009975	HM470238	HM470235	JX009864	JX010440
<i>C. dematium</i>	CBS 125.25*	<i>Eryngium campestre</i> , dead leaf	France	GU227819	GU228211		GU227917	GU228309	GU228113
<i>C. fiorinia</i>	CBS 124958	<i>Pyrus</i> sp., fruit rot	USA	JQ948306	JQ948636		JQ949627	JQ948967	JQ949957
<i>C. fructicola</i>	CBS 125395	<i>Theobroma cacao</i>	Panama	JX010172	JX009992	JX009666	JX009543	JX009873	JX010408
	ICMP 18581*	<i>Coffea arabica</i>	Thailand	JX010165	JX010033	FJ917508	FJ907426	JX009866	JX010405
	ICMP 18727	<i>Fragaria</i> × <i>ananassa</i>	USA	JX010179	JX010035	JX009682	JX009565	JX009812	JX010394
<i>C. fructicola</i> (syn. <i>C. ignotum</i>)	CBS 125397(*)	<i>Tetragastris panamensis</i>	Panama	JX010173	JX010032	JX009674	JX009581	JX009874	JX010409
<i>C. fructicola</i> (syn. <i>Glomerella cingulata</i> var. minor)	CBS 238.49(*)	<i>Ficus edulis</i>	Germany	JX010181	JX009923	JX009671	JX009495	JX009839	JX010400
<i>C. gloeosporioides</i>	IMI 356878*	<i>Citrus sinensis</i>	Italy	JX010152	JX010056	JX009731	JX009531	JX009818	JX010445
<i>C. gloeosporioides</i> (syn.	CBS 273.51(*)	<i>Citrus limon</i>	Italy	JX010148	JX010054	JX009745	JX009558	JX009903	

Gloeosporium pedemontanum)									
<i>C. godetiae</i>	CBS 133.44*	<i>Clarkia hybrid</i>	Denmark	JQ948402	JQ948733		JQ949723	JQ949063	JQ950053
<i>C. hippeastri</i>	CBS 241.78	<i>Hippeastrum</i> sp.	Netherlands	JX010293	JX009932	JX009740	JX009485	JX009838	
<i>C. horii</i>	NBRC 7478*,	<i>Diospyros kaki</i>	Japan	GQ329690	GQ329681	JX009604	JX009438	JX009752	JX010450
<i>C. kahawae</i> subsp. ciggaro	ICMP 18539*	<i>Olea europaea</i>	Australia	JX010230	JX009966	JX009635	JX009523	JX009800	JX010434
<i>C. kahawae</i> subsp. ciggaro (syn. <i>Glomerella</i> <i>rufomaculans</i> var. <i>vaccinii</i>)	CBS 124.22(*)	<i>Vaccinium</i> sp.	USA	JX010228	JX009950	JX009744	JX009536	JX009902	JX010433
<i>C. kahawae</i> subsp. ciggaro (syn. <i>Glomerella</i> <i>cingulata</i> var. <i>migrans</i>)	CBS 237.49(*)	<i>Hypericum</i> <i>perforatum</i>	Germany	JX010238	JX010042	JX009636	JX009450	JX009840	JX010432
<i>C. kahawae</i> subsp. kahawae	IMI 319418*	<i>Coffea arabica</i>	Kenya	JX010231	JX010012	JX009642	JX009452	JX009813	JX010444
<i>C. liaoningense</i>	CGMCC 3.17616*	<i>Capsicum</i> sp.	China	KP890104	KP890135		KP890097	KP890127	KP890111
<i>C. magnum</i>	CBS 519.97*	<i>Citrullus</i> <i>lanatus</i>	USA	MG600769	MG600829		MG600973	MG600875	MG601036
<i>C. musae</i>	CBS 116870*	<i>Musa</i> sp.	USA	JX010146	JX010050	JX009742	JX009433	JX009896	HQ596280
<i>C. musicola</i>	CBS 132885*	<i>Musa</i> sp.	Mexico	MG600736	MG600798		MG600942	MG600853	MG601003
<i>C. okinawense</i>	MAFF 240517	<i>Carica papaya</i>	Japan	MG600767	MG600827		MG600971		MG601034

<i>C. orbiculare</i>	CBS 514.97	<i>Cucumis sativus</i>	Japan	JQ005778	KF178491		JQ005841	JQ005799	JQ005862
<i>C. orchidearum</i>	CBS 135131*	<i>Dendrobium nobile</i>	Netherlands	MG600738	MG600800		MG600944	MG600855	MG601005
<i>C. panamense</i>	CBS 125386*	<i>Merremia umbellata</i>	Panama	MG600766	MG600826		MG600970	MG600873	MG601033
<i>C. phyllanthi</i>	CBS 175.67*	<i>Phyllanthus acidus</i> , anthracnose	India	JQ005221	JQ005308	JQ005742	JQ005569	JQ005395	JQ005655
<i>C. piperis</i>	IMI 71397*	<i>Piper nigrum</i>	Malaysia	MG600760	MG600820		MG600964	MG600867	MG601027
<i>C. plurivorum</i>	CBS 125474*	<i>Coffea</i> sp.	Vietnam	MG600718	MG600781		MG600925	MG600841	MG600985
<i>C. psidii</i>	CBS 145.29*	<i>Psidium</i> sp.	Italy	JX010219	JX009967	JX009743	JX009515	JX009901	JX010443
<i>C. queenslandicum</i>	ICMP 1778*	<i>Carica papaya</i>	Australia	JX010276	JX009934	JX009691	JX009447	JX009899	JX010414
<i>C. salsolae</i>	ICMP 19051*	<i>Salsola tragus</i>	Hungary	JX010242	JX009916	JX009696	JX009562	JX009863	JX010403
<i>C. siamense</i>	ICMP 18578*	<i>Coffea arabica</i>	Thailand	JX010171	JX009924	FJ917505	FJ907423	JX009865	JX010404
<i>C. siamense</i>	CBS 125378(*)	<i>Hymenocallis americana</i>	China	JX010278	JX010019	JX009709	GQ856775	GQ856730	JX010410
<i>C. siamense</i>	CBS 130420(*)	<i>Jasminum sambac</i>	Vietnam	HM131511	HM131497	JX009713	HM131507	JX009895	JX010415
<i>C. sojae</i>	ATCC 62257*	<i>Glycine max</i>	USA	MG600749	MG600810		MG600954	MG600860	MG601016
<i>C. theobromicola</i>	CBS 124945*	<i>Theobroma cacao</i>	Panama	JX010294	JX010006	JX009591	JX009444	JX009869	JX010447
<i>C. ti</i>	ICMP 4832*	<i>Cordyline</i> sp.	New Zealand	JX010269	JX009952	JX009649	JX009520	JX009898	JX010442
<i>C. tropicale</i>	CBS 124949*	<i>Theobroma cacao</i>	Panama	JX010264	JX010007	JX009719	JX009489	JX009870	JX010407

<i>C. viniferum</i>	GZAAS5.08601*	<i>Vitis vinifera</i> , cv. 'Shuijing'	China	JN412804	JN412798	JQ309639	JN412795		JN412813
<i>C. xanthorrhoeae</i>	BRIP 45094*	<i>Xanthorrhoea</i> <i>preissii</i>	Australia	JX010261	JX009927	JX009653	JX009478	JX009823	JX010448
<i>Glomerella cingulata</i> "f.sp. <i>camelliae</i> "	ICMP 10643	<i>Camellia</i> × <i>williamsii</i>	UK	JX010224	JX009908	JX009630	JX009540	JX009891	JX010436
<i>Monilochaetes</i> <i>infuscans</i>	CBS 869.96*	<i>Ipomoea</i> <i>batatas</i>	South Africa	JQ005780	JX546612		JQ005843	JQ005801	JQ005864

* = ex-type culture

Table S4. List of 61 representative isolates of *Colletotrichum* spp. uploaded to NCBI.

Species	Isolate No.	Host	Country	GenBank accession number					
				ACT	CAL	CHS-1	GAPDH	ITS	TUB2
<i>C. aenigma</i>	JF2391	<i>Juglans regia</i> L., leaf	China	MW783708	MW783767	MW783826	MW783885	MW699547	MW783944
	JF2392	<i>Juglans regia</i> L., leaf	China	MW783709	MW783768	MW783827	MW783886	MW699548	MW783945
	JF2393	<i>Juglans regia</i> L., leaf	China	MW783710	MW783769	MW783828	MW783887	MW699549	MW783946
	LDH3011	<i>Juglans regia</i> L., leaf	China	MW783711	MW783770	MW783829	MW783888	MW699550	MW783947
	LDH4012	<i>Juglans regia</i> L., leaf	China	MW783712	MW783771	MW783830	MW783889	MW699551	MW783948
	LDH7013	<i>Juglans regia</i> L., leaf	China	MW783713	MW783772	MW783831	MW783890	MW699552	MW783949
	LDH9011	<i>Juglans regia</i> L., leaf	China	MW783714	MW783773	MW783832	MW783891	MW699553	MW783950
	DGZ1071	<i>Juglans regia</i> L., leaf	China	MW783715	MW783774	MW783833	MW783892	MW699554	MW783951
	DGZ1091	<i>Juglans regia</i> L., leaf	China	MW783716	MW783775	MW783834	MW783893	MW699555	MW783952
	JZ1071	<i>Juglans regia</i> L., leaf	China	MW783717	MW783776	MW783835	MW783894	MW699556	MW783953
	JZ1092	<i>Juglans regia</i> L., leaf	China	MW783718	MW783777	MW783836	MW783895	MW699557	MW783954
	JZ1102	<i>Juglans regia</i> L., leaf	China	MW783719	MW783778	MW783837	MW783896	MW699558	MW783955
<i>C. fruticicola</i>	JF2431	<i>Juglans regia</i> L., leaf	China	MW783720	MW783779	MW783838	MW783897	MW699560	MW783956
	JF2432	<i>Juglans regia</i> L., leaf	China	MW783721	MW783780	MW783839	MW783898	MW699561	MW783957
	JF2433	<i>Juglans regia</i> L., leaf	China	MW783722	MW783781	MW783840	MW783899	MW699562	MW783958
	DGZ1011	<i>Juglans regia</i> L., leaf	China	MW783723	MW783782	MW783841	MW783900	MW699563	MW783959
	DGZ1031	<i>Juglans regia</i> L., leaf	China	MW783724	MW783783	MW783842	MW783901	MW699564	MW783960
	DGZ1052	<i>Juglans regia</i> L., leaf	China	MW783725	MW783784	MW783843	MW783902	MW699565	MW783961
	DGZ2051	<i>Juglans regia</i> L., leaf	China	MW783726	MW783785	MW783844	MW783903	MW699566	MW783962
	JZ1121	<i>Juglans regia</i> L., leaf	China	MW783727	MW783786	MW783845	MW783904	MW699567	MW783963
	XGZ1021	<i>Juglans regia</i> L., leaf	China	MW783728	MW783787	MW783846	MW783905	MW699568	MW783964
<i>C. gloeosporioides</i>	JF1021	<i>Juglans regia</i> L., leaf	China	MW783729	MW783788	MW783847	MW783906	MW699572	MW783965
	JF2161	<i>Juglans regia</i> L., leaf	China	MW783730	MW783789	MW783848	MW783907	MW699573	MW783966

<i>C. siamense</i>	SW1011	<i>Juglans regia</i> L., leaf	China	MW783731	MW783790	MW783849	MW783908	MW699574	MW783967
	SW3011	<i>Juglans regia</i> L., leaf	China	MW783732	MW783791	MW783850	MW783909	MW699575	MW783968
	JFG1051	<i>Juglans regia</i> L., fruit	China	MW783733	MW783792	MW783851	MW783910	MW699576	MW783969
	MTG1011	<i>Juglans regia</i> L., leaf	China	MW783734	MW783793	MW783852	MW783911	MW699577	MW783970
	MTG2011	<i>Juglans regia</i> L., leaf	China	MW783735	MW783794	MW783853	MW783912	MW699578	MW783971
	PGG1011	<i>Juglans regia</i> L., fruit	China	MW783736	MW783795	MW783854	MW783913	MW699579	MW783972
	PGG5011	<i>Juglans regia</i> L., fruit	China	MW783737	MW783796	MW783855	MW783914	MW699580	MW783973
	PG1021	<i>Juglans regia</i> L., leaf	China	MW783738	MW783797	MW783856	MW783915	MW699581	MW783974
	DHS1011	<i>Juglans regia</i> L., leaf	China	MW783739	MW783798	MW783857	MW783916	MW699582	MW783975
	XGZ2011	<i>Juglans regia</i> L., leaf	China	MW783740	MW783799	MW783858	MW783917	MW699583	MW783976
	FGZ1032	<i>Juglans regia</i> L., leaf	China	MW783741	MW783800	MW783859	MW783918	MW699584	MW783977
	FGZ1053	<i>Juglans regia</i> L., leaf	China	MW783742	MW783801	MW783860	MW783919	MW699585	MW783978
	DGZ1041	<i>Juglans regia</i> L., leaf	China	MW783743	MW783802	MW783861	MW783920	MW699586	MW783979
	JZ1031	<i>Juglans regia</i> L., leaf	China	MW783744	MW783803	MW783862	MW783921	MW699587	MW783980
	JZ1161	<i>Juglans regia</i> L., leaf	China	MW783745	MW783804	MW783863	MW783922	MW699588	MW783981
	ST1013	<i>Juglans regia</i> L., leaf	China	MW783746	MW783805	MW783864	MW783923	MW699589	MW783982
	DHSG2012	<i>Juglans regia</i> L., fruit	China	MW783747	MW783806	MW783865	MW783924	MW699590	MW783983
	JF2011	<i>Juglans regia</i> L., leaf	China	MW783748	MW783807	MW783866	MW783925	MW699593	MW783984
	JF2453	<i>Juglans regia</i> L., leaf	China	MW783749	MW783808	MW783867	MW783926	MW699594	MW783985
	SW2021	<i>Juglans regia</i> L., leaf	China	MW783750	MW783809	MW783868	MW783927	MW699595	MW783986
	SW1021	<i>Juglans regia</i> L., leaf	China	MW783751	MW783810	MW783869	MW783928	MW699596	MW783987
	SWG1011	<i>Juglans regia</i> L., fruit	China	MW783752	MW783811	MW783870	MW783929	MW699597	MW783988
	SWG1031	<i>Juglans regia</i> L., fruit	China	MW783753	MW783812	MW783871	MW783930	MW699598	MW783989
	JFG1011	<i>Juglans regia</i> L., fruit	China	MW783754	MW783813	MW783872	MW783931	MW699599	MW783990
	JFG2011	<i>Juglans regia</i> L., fruit	China	MW783755	MW783814	MW783873	MW783932	MW699600	MW783991
	FS5012	<i>Juglans regia</i> L., leaf	China	MW783756	MW783815	MW783874	MW783933	MW699601	MW783992
	FSG1022	<i>Juglans regia</i> L., fruit	China	MW783757	MW783816	MW783875	MW783934	MW699602	MW783993

	MTGG2011	<i>Juglans regia</i> L., fruit	China	MW783758	MW783817	MW783876	MW783935	MW699603	MW783994
	XQY1031	<i>Juglans regia</i> L., leaf	China	MW783759	MW783818	MW783877	MW783936	MW699604	MW783995
	XQY1021	<i>Juglans regia</i> L., leaf	China	MW783760	MW783819	MW783878	MW783937	MW699605	MW783996
	MTGG1011	<i>Juglans regia</i> L., fruit	China	MW783761	MW783820	MW783879	MW783938	MW699606	MW783997
	ST1022	<i>Juglans regia</i> L., leaf	China	MW783762	MW783821	MW783880	MW783939	MW699607	MW783998
	XQY1071	<i>Juglans regia</i> L., leaf	China	MW783763	MW783822	MW783881	MW783940	MW699608	MW783999
	PG5031	<i>Juglans regia</i> L., leaf	China	MW783764	MW783823	MW783882	MW783941	MW699609	MW784000
	DHS2031	<i>Juglans regia</i> L., leaf	China	MW783765	MW783824	MW783883	MW783942	MW699610	MW784001
	FSG1011	<i>Juglans regia</i> L., fruit	China	MW783766	MW783825	MW783884	MW783943	MW699611	MW784002
<i>C. liaoningense</i>	XGZ3011	<i>Juglans regia</i> L., leaf	China	MW810312		MW810313	MW810314	MW805735	MW831310
<i>C. sojaj</i>	XGZ3021	<i>Juglans regia</i> L., leaf	China	MW810315		MW810316	MW810317	MW805734	MW810318

Table S5. Determination of sensitivity of walnut anthracnose to seven fungicides.

Fungicide	Isolate	Species	EC ₅₀ (μ g/mL)	Regression equation	Correlation coefficient (R)
Difenoconazole	XGZ3011	<i>C. liaoningense</i>	0.1888	$y=0.6696x+5.4847$	0.9510
	XGZ3011	<i>C. liaoningense</i>	0.0728	$y=0.5734x+5.6525$	0.9916
	XGZ3021	<i>C. sojae</i>	0.3286	$y=0.7922x+5.3828$	0.9919
	XGZ3021	<i>C. sojae</i>	0.1380	$y=0.6151x+5.5290$	0.9942
	JF2391	<i>C. aenigma</i>	0.2157	$y=1.1419x+5.7605$	0.9825
	JF2393	<i>C. aenigma</i>	0.1353	$y=0.9435x+5.8194$	0.9962
	LDH4011	<i>C. aenigma</i>	0.2318	$y=0.7314x+5.4644$	0.9346
	LDH7011	<i>C. aenigma</i>	0.2159	$y=0.7037x+5.4685$	0.9701
	LDH3011	<i>C. aenigma</i>	0.2987	$y=0.7775x+5.4080$	0.9936
	JZ1151	<i>C. aenigma</i>	0.0699	$y=0.7631x+5.8817$	0.9958
	DGZ1071	<i>C. aenigma</i>	0.1276	$y=0.9366x+5.8372$	0.9955
	JF2432	<i>C. fructicola</i>	0.1369	$y=0.7036x+5.6075$	0.9943
	JF2433	<i>C. fructicola</i>	0.0969	$y=0.7200x+5.7296$	0.9820
	DGZ1052	<i>C. fructicola</i>	0.0932	$y=0.6651x+5.6853$	0.9984
	DGZ1011	<i>C. fructicola</i>	0.0759	$y=1.2408x+6.3893$	0.9668
	XGZ1021	<i>C. fructicola</i>	0.0635	$y=0.5918x+5.7084$	0.9945
	JZ1121	<i>C. fructicola</i>	0.1006	$y=0.5985x+5.5968$	0.9924
	JF1021	<i>C. gloeosporioides</i>	0.1159	$y=0.7699x+5.7207$	0.9534
	JF2271	<i>C. gloeosporioides</i>	0.1163	$y=0.9269x+5.8660$	0.9653
	JF2411	<i>C. gloeosporioides</i>	0.2010	$y=0.9311x+5.6488$	0.9701
	JFG1051	<i>C. gloeosporioides</i>	0.1071	$y=0.8064x+5.7826$	0.8852
	LDH9011	<i>C. gloeosporioides</i>	0.2438	$y=1.0320x+5.6324$	0.9893

Prochloraz	MTG2011	<i>C. gloeosporioides</i>	0.1332	$y=0.6669x+5.5837$	0.8989
	DGZ1041	<i>C. gloeosporioides</i>	0.1015	$y=0.7908x+5.7856$	0.9943
	JZ1031	<i>C. gloeosporioides</i>	0.0914	$y=0.8952x+5.9301$	0.9933
	XGZ2011	<i>C. gloeosporioides</i>	0.1050	$y=0.6482x+5.6344$	0.9879
	FS5021	<i>C. siamense</i>	0.1011	$y=0.7921x+5.78826$	0.9656
	JF2011	<i>C. siamense</i>	0.0940	$y=0.9314x+5.9561$	0.9909
	JF2451	<i>C. siamense</i>	0.1198	$y=0.7664x+5.7062$	0.9701
	JFG1011	<i>C. siamense</i>	0.0633	$y=0.8059x+5.9658$	0.9924
	JFG1041	<i>C. siamense</i>	0.1429	$y=0.7534x+5.6365$	0.9886
	SWG1011	<i>C. siamense</i>	0.0879	$y=0.9132x+5.9640$	0.9996
	SWG3011	<i>C. siamense</i>	0.1459	$y=0.7021x+5.5867$	0.9927
	XQY1021	<i>C. siamense</i>	0.0670	$y=0.8577x+6.0068$	0.9936
	DGZ1071	<i>C. aenigma</i>	0.0261	$y=1.3920x+7.2025$	0.9818
	JF2391	<i>C. aenigma</i>	0.0276	$y=1.5430x+7.4034$	0.9920
	JF2392	<i>C. aenigma</i>	0.0268	$y=1.0779x+6.6935$	0.9761
	JF2393	<i>C. aenigma</i>	0.0349	$y=1.3311x+6.9381$	0.9967
	JZ1151	<i>C. aenigma</i>	0.0240	$y=1.4355x+7.3237$	0.9979
	LDH3011	<i>C. aenigma</i>	0.0200	$y=1.0896x+6.8511$	0.9409
	LDH4011	<i>C. aenigma</i>	0.0385	$y=1.2924x+6.8270$	0.9894
	LDH7011	<i>C. aenigma</i>	0.0170	$y=1.0336x+6.8274$	0.9057
	XGZ3011	<i>C. liaoningense</i>	0.0185	$y=0.9574x+6.6570$	0.9907
	XGZ3012	<i>C. liaoningense</i>	0.0123	$y=0.8540x+6.6286$	0.9971
	DGZ1011	<i>C. fruticola</i>	0.0209	$y=1.2723x+7.1362$	0.9957
	DGZ1052	<i>C. fruticola</i>	0.0227	$y=1.3686x+7.2476$	0.9962
	JF2432	<i>C. fruticola</i>	0.0188	$y=1.1346x+6.9562$	0.9904
	JF2433	<i>C. fruticola</i>	0.0154	$y=1.3645x+7.34704$	0.9791

JF2451	<i>C. fruticola</i>	0.0222	$y=1.0863x+6.7959$	0.9523
JZ1121	<i>C. fruticola</i>	0.0251	$y=1.0608x+6.8571$	0.9909
XGZ1021	<i>C. fruticola</i>	0.0135	$y=1.1207x+7.0926$	0.9898
DGZ1041	<i>C. gloeosporioides</i>	0.0208	$y=1.3895x+7.3347$	0.9981
JF1021	<i>C. gloeosporioides</i>	0.0185	$y=1.1469x+6.9864$	0.9477
JF2161	<i>C. gloeosporioides</i>	0.0234	$y=1.0242x+6.6689$	0.9811
JF2271	<i>C. gloeosporioides</i>	0.0187	$y=0.8846x+6.5283$	0.9867
JF2411	<i>C. gloeosporioides</i>	0.0199	$y=1.1141x+6.8956$	0.9952
JF2431	<i>C. gloeosporioides</i>	0.0160	$y=0.9835x+6.7642$	0.9910
JFG1051	<i>C. gloeosporioides</i>	0.0177	$y=0.9134x+6.5994$	0.9464
JZ1031	<i>C. gloeosporioides</i>	0.0172	$y=1.4773x+7.6044$	0.9778
LDH9011	<i>C. gloeosporioides</i>	0.0256	$y=1.5603x+7.4837$	0.9851
MTG1011	<i>C. gloeosporioides</i>	0.0164	$y=0.8322x+6.4855$	0.9772
MTG2011	<i>C. gloeosporioides</i>	0.0198	$y=1.1303x+6.9250$	0.9743
SW3011	<i>C. gloeosporioides</i>	0.0378	$y=1.0762x+6.5301$	0.9671
XGZ2011	<i>C. gloeosporioides</i>	0.0216	$y=1.4139x+7.3528$	0.9892
FS5011	<i>C. siamense</i>	0.0265	$y=1.2022x+6.8951$	0.9177
FS5021	<i>C. siamense</i>	0.0216	$y=1.1700x+6.9489$	0.9616
FSG1021	<i>C. siamense</i>	0.0128	$y=0.9233x+6.7454$	0.9764
JF2011	<i>C. siamense</i>	0.0156	$y=1.3182x+7.3793$	0.9950
JF2131	<i>C. siamense</i>	0.0183	$y=0.8590x+6.4917$	0.9644
JF2321	<i>C. siamense</i>	0.0231	$y=1.1494x+6.8808$	0.9305
JFG1011	<i>C. siamense</i>	0.0135	$y=1.5190x+7.8390$	0.9976
JFG1041	<i>C. siamense</i>	0.0213	$y=1.0781x+6.8011$	0.9817
JFG2041	<i>C. siamense</i>	0.0146	$y=0.9889x+6.8144$	0.9909
SW1021	<i>C. siamense</i>	0.0201	$y=1.1451x+6.9412$	0.9937

Mefentrifluconazole	SW2021	<i>C. siamense</i>	0.0134	$y=1.0823x+7.0259$	0.9898
	SW3031	<i>C. siamense</i>	0.0198	$y=1.1553x+6.9671$	0.9666
	SWG1011	<i>C. siamense</i>	0.0132	$y=1.3675x+7.5698$	0.9974
	SWG3011	<i>C. siamense</i>	0.0194	$y=0.9739x+6.6676$	0.9633
	XQY1021	<i>C. siamense</i>	0.0150	$y=1.4108x+735722$	0.9979
	XGZ3021	<i>C. sojae</i>	0.0514	$y=1.0450x+6.3463$	0.9913
	XGZ3012	<i>C. liaoningense</i>	0.3337	$y=0.6701x+5.3194$	0.9842
	XGZ3011	<i>C. liaoningense</i>	0.8065	$y=1.1495x+5.1073$	0.9798
	XGZ3021	<i>C. sojae</i>	1.4666	$y=0.9985x+4.8339$	0.9520
	DGZ1071	<i>C. aenigma</i>	0.9266	$y=1.2349x+5.0408$	0.9762
	JZ1151	<i>C. aenigma</i>	0.6915	$y=1.2396x+5.1985$	0.9863
	JF2391	<i>C. aenigma</i>	0.4484	$y=1.0016x+5.3488$	0.9933
	JF2393	<i>C. aenigma</i>	0.5353	$y=1.1798x+5.3201$	0.9958
	LDH3011	<i>C. aenigma</i>	1.5547	$y=1.1916x+4.7716$	0.9692
	LDH4011	<i>C. aenigma</i>	1.3437	$y=0.9096x+4.8832$	0.9615
	LDH7011	<i>C. aenigma</i>	1.8659	$y=1.4163x+4.6163$	0.9851
	DGZ1011	<i>C. fructicola</i>	0.4749	$y=0.7953x+5.2572$	0.9557
	DGZ1052	<i>C. fructicola</i>	0.7778	$y=0.8131x+5.0887$	0.927
	JF2431	<i>C. fructicola</i>	1.5125	$y=0.9220x+4.8343$	0.9556
	JF2432	<i>C. fructicola</i>	0.2899	$y=1.0620x+5.5710$	0.9866
	JF2433	<i>C. fructicola</i>	0.7418	$y=0.7359x+5.0954$	0.9762
	JZ1121	<i>C. fructicola</i>	1.1066	$y=0.8431x+4.9628$	0.9293
	XGZ1021	<i>C. fructicola</i>	1.1395	$y=0.9068x+4.9485$	0.984
	XGZ1021	<i>C. fructicola</i>	1.1395	$y=0.9068x+4.9485$	0.9840
	JZ1121	<i>C. fructicola</i>	1.1066	$y=0.8431x+4.9628$	0.9293
	JFG1051	<i>C. gloeosporioides</i>	0.7179	$y=1.0287x+5.1480$	0.9895

Fluazinam	LDH9011	<i>C. gloeosporioides</i>	0.6421	$y=1.0090x+5.1940$	0.9851
	MTG1011	<i>C. gloeosporioides</i>	1.2843	$y=1.1224x+4.8780$	0.8533
	MTG2011	<i>C. gloeosporioides</i>	1.2075	$y=1.0670x+4.9126$	0.8482
	JZ1031	<i>C. gloeosporioides</i>	1.2756	$y=1.0894x+4.8847$	0.9829
	XGZ2011	<i>C. gloeosporioides</i>	1.5522	$y=0.3639x+4.7395$	0.9507
	DGZ1041	<i>C. gloeosporioides</i>	1.3869	$y=0.7900x+4.8877$	0.9692
	FS5011	<i>C. siamense</i>	1.0363	$y=1.1858x+4.9817$	0.9881
	JF2011	<i>C. siamense</i>	0.5067	$y=0.8809x+5.2600$	0.9997
	JF2271	<i>C. siamense</i>	1.1870	$y=1.3826x+4.8970$	0.9612
	JF2321	<i>C. siamense</i>	0.7582	$y=1.0229x+5.1229$	0.9851
	JF2451	<i>C. siamense</i>	1.3402	$y=1.1473x+4.8540$	0.9670
	JFG1011	<i>C. siamense</i>	0.4631	$y=0.8317x+5.2780$	0.9923
	JFG1041	<i>C. siamense</i>	0.9058	$y=1.0694x+5.0459$	0.9770
	JFG2041	<i>C. siamense</i>	0.9076	$y=1.0855x+5.0456$	0.9700
	SW2021	<i>C. siamense</i>	1.1336	$y=1.0633x+4.9420$	0.9757
	SWG1011	<i>C. siamense</i>	0.6751	$y=1.0190x+5.1738$	0.9961
	XQY1021	<i>C. siamense</i>	0.3627	$y=1.0787x+5.4750$	0.9754
	XGZ3011	<i>C. liaoningense</i>	0.0855	$y=1.5342x+6.6383$	0.9805
	XGZ3012	<i>C. liaoningense</i>	0.1309	$y=1.5267x+6.3481$	0.9919
	XGZ3021	<i>C. sojae</i>	0.2465	$y=1.0420x+5.6337$	0.9687
	XGZ3022	<i>C. sojae</i>	0.2675	$y=1.1353x+5.6500$	0.9694
	JF2391	<i>C. aenigma</i>	0.0529	$y=1.8464x+7.3558$	0.9632
	JF2393	<i>C. aenigma</i>	0.0897	$y=0.9684x+6.0137$	0.9462
	LDH4011	<i>C. aenigma</i>	0.0540	$y=1.1486x+6.4555$	0.9786
	LDH7011	<i>C. aenigma</i>	0.0617	$y=0.8979x+6.0856$	0.9032
	LDH3011	<i>C. aenigma</i>	0.0642	$y=1.2386x+6.4769$	0.9836

JZ1151	<i>C. aenigma</i>	0.1009	$y=1.1305x+6.1260$	0.9977
DGZ1071	<i>C. aenigma</i>	0.0497	$y=1.2910x+6.6830$	0.9896
JF2432	<i>C. fructicola</i>	0.0320	$y=1.2382x+6.8501$	0.9879
JF2433	<i>C. fructicola</i>	0.0490	$y=1.4872x+6.9472$	0.9887
DGZ1052	<i>C. fructicola</i>	0.0587	$y=1.4624x+6.8006$	0.9785
DGZ1011	<i>C. fructicola</i>	0.0578	$y=1.4585x+6.8048$	0.9769
XGZ1021	<i>C. fructicola</i>	0.0507	$y=1.4702x+6.6919$	0.9954
JZ1121	<i>C. fructicola</i>	0.0728	$y=1.4872x+6.6919$	0.9987
JF1021	<i>C. gloeosporioides</i>	0.0592	$y=1.3484x+6.6548$	0.9989
JF2162	<i>C. gloeosporioides</i>	0.0762	$y=1.1538x+6.2903$	0.9805
JF2271	<i>C. gloeosporioides</i>	0.0550	$y=1.1105x+6.3980$	0.9780
JFG1051	<i>C. gloeosporioides</i>	0.0564	$y=0.9534x+6.1902$	0.9639
LDH9011	<i>C. gloeosporioides</i>	0.0407	$y=1.4949x+7.0780$	0.9706
MTG1011	<i>C. gloeosporioides</i>	0.0766	$y=1.1320x+6.2627$	0.9645
MTG2011	<i>C. gloeosporioides</i>	0.0700	$y=0.4952x+5.5718$	0.9574
DGZ1041	<i>C. gloeosporioides</i>	0.0528	$y=1.4104x+6.8008$	0.9617
JZ1031	<i>C. gloeosporioides</i>	0.0515	$y=1.3692x+6.7627$	0.9940
XGZ2011	<i>C. gloeosporioides</i>	0.0514	$y=1.4076x+6.8137$	0.9918
JF2011	<i>C. siamense</i>	0.0460	$y=1.1420x+6.5266$	0.9833
JF2451	<i>C. siamense</i>	0.0709	$y=0.8580x+5.9858$	0.9751
JFG1011	<i>C. siamense</i>	0.0376	$y=1.2941x+6.8436$	0.9804
JFG1041	<i>C. siamense</i>	0.0550	$y=0.9657x+6.2164$	0.9848
SW1021	<i>C. siamense</i>	0.0652	$y=0.8188x+5.9710$	0.9214
SW2021	<i>C. siamense</i>	0.0686	$y=0.9105x+6.0595$	0.9302
SWG1011	<i>C. siamense</i>	0.0386	$y=1.3034x+6.8423$	0.9670
SWG1031	<i>C. siamense</i>	0.0877	$y=0.8406x+5.7861$	0.9204

Tebuconazole	SWG3011	<i>C. siamense</i>	0.0491	$y=0.8470x+6.1089$	0.9915
	XQY1021	<i>C. siamense</i>	0.0292	$y=1.3750x+7.1086$	0.9932
	XGZ3011	<i>C. liaoningense</i>	0.2516	$y=1.0001x+5.5992$	0.9990
	XGZ3021	<i>C. sojae</i>	0.6900	$y=1.1731x+5.1889$	0.9978
	JF2391	<i>C. aenigma</i>	1.0539	$y=0.9307x+4.9787$	0.9916
	JF2393	<i>C. aenigma</i>	0.9307	$y=0.8309x+5.0258$	0.9888
	LDH4011	<i>C. aenigma</i>	1.6444	$y=1.0289x+4.7777$	0.9885
	LDH7011	<i>C. aenigma</i>	1.2450	$y=0.7223x+4.9312$	0.9282
	DGZ1071	<i>C. aenigma</i>	0.3027	$y=1.0299x+5.5344$	0.9950
	LDH3011	<i>C. aenigma</i>	0.4367	$y=0.8224x+5.2959$	0.9597
	JZ1151	<i>C. aenigma</i>	0.2025	$y=1.0121x+5.7019$	0.9953
	JF2431	<i>C. fruticola</i>	0.0701	$y=0.8143x+4.9760$	0.9938
	XGZ1021	<i>C. fruticola</i>	0.3277	$y=1.0120x+5.4903$	0.9988
	JZ1121	<i>C. fruticola</i>	0.3673	$y=0.9998x+5.4348$	0.9989
	DGZ1011	<i>C. fruticola</i>	0.1256	$y=0.9766x+5.8797$	0.9956
	DGZ1052	<i>C. fruticola</i>	0.1768	$y=1.0163x+5.7647$	0.9997
	JF1022	<i>C. gloeosporioides</i>	1.4813	$y=1.1185x+4.8091$	0.9889
	JF2161	<i>C. gloeosporioides</i>	0.9357	$y=1.5565x+5.0449$	0.9835
	JF2411	<i>C. gloeosporioides</i>	0.5970	$y=1.2279x+5.2750$	0.9976
	JFG1051	<i>C. gloeosporioides</i>	0.7352	$y=0.9275x+5.1238$	0.9995
	MTG1011	<i>C. gloeosporioides</i>	0.6102	$y=0.9726x+5.2085$	0.9967
	MTG2011	<i>C. gloeosporioides</i>	0.8681	$y=1.4859x+5.0912$	0.9779
	JZ1031	<i>C. gloeosporioides</i>	0.2368	$y=1.1844x+5.7408$	0.9848
	XGZ2011	<i>C. gloeosporioides</i>	0.2985	$y=1.2513x+5.6569$	0.9927
	DGZ1041	<i>C. gloeosporioides</i>	0.2659	$y=0.9000x+5.5177$	0.9959
	FS5021	<i>C. siamense</i>	0.6758	$y=0.9758x+5.1451$	0.9975

Epoxiconazole	FSG1021	<i>C. siamense</i>	0.8379	$y=1.1396x+5.0875$	0.9990
	JF2011	<i>C. siamense</i>	0.8002	$y=1.0021x+5.0970$	0.9961
	JF2131	<i>C. siamense</i>	0.7352	$y=0.9275x+5.1238$	0.9995
	JF2271	<i>C. siamense</i>	0.5124	$y=1.2155x+5.3529$	0.9931
	JF2321	<i>C. siamense</i>	0.7989	$y=0.8428x+5.0821$	0.9984
	JF2451	<i>C. siamense</i>	0.5566	$y=1.2867x+5.3273$	0.9942
	JFG1041	<i>C. siamense</i>	0.6226	$y=0.8911x+5.1833$	0.9941
	JFG2041	<i>C. siamense</i>	0.7511	$y=0.8928x+5.1109$	0.9922
	SW1021	<i>C. siamense</i>	0.9411	$y=0.9904x+5.0260$	0.9967
	SW2021	<i>C. siamense</i>	0.7793	$y=0.8628x+5.0934$	0.9982
	SWG1031	<i>C. siamense</i>	0.6816	$y=0.8358x+5.1391$	0.9888
	XGZ3011	<i>C. liaoningense</i>	0.2288	$y=1.2600x+5.8069$	0.9995
	XGZ3021	<i>C. sojae</i>	0.6782	$y=1.4747x+5.2486$	0.9922
	DGZ1071	<i>C. aenigma</i>	0.3469	$y=1.5551x+5.7148$	0.9985
	JF2391	<i>C. aenigma</i>	0.3708	$y=1.4020x+5.6039$	0.9897
	JF2392	<i>C. aenigma</i>	0.3215	$y=1.5305x+5.7541$	0.9928
	JZ1151	<i>C. aenigma</i>	0.1582	$y=1.2490x+6.0001$	0.9757
	LDH4012	<i>C. aenigma</i>	0.4115	$y=1.5224x+5.5870$	0.9836
	LDH3011	<i>C. aenigma</i>	0.4562	$y=1.0944x+5.4070$	0.9908
	DGZ1011	<i>C. fruticola</i>	0.2909	$y=1.1466x+5.6149$	0.9998
	DGZ1052	<i>C. fruticola</i>	0.2937	$y=1.1359x+5.6043$	0.9974
	JF2431	<i>C. fruticola</i>	0.2703	$y=1.1578x+5.6577$	0.9993
	JF2432	<i>C. fruticola</i>	0.2707	$y=1.1851x+5.6724$	0.9972
	JZ1121	<i>C. fruticola</i>	0.3344	$y=1.2128x+5.5769$	0.9945
	XGZ1021	<i>C. fruticola</i>	0.2887	$y=1.2258x+5.6612$	0.9967
	DGZ1041	<i>C. gloeosporioides</i>	0.3142	$y=1.2153x+5.6109$	0.9830

SYP-14288	DHS1011	<i>C. gloeosporioides</i>	0.4639	$y=1.8798x+5.6269$	0.9935
	JF1021	<i>C. gloeosporioides</i>	0.5992	$y=1.3749x+5.3057$	0.9821
	JFG1051	<i>C. gloeosporioides</i>	0.2813	$y=1.3156x+5.2746$	0.9967
	SW1011	<i>C. gloeosporioides</i>	0.1911	$y=1.2818x+5.9211$	0.9984
	XGZ2011	<i>C. gloeosporioides</i>	0.2826	$y=1.5744x+5.8638$	0.9920
	DHS2031	<i>C. siamense</i>	0.1718	$y=1.2134x+5.9279$	0.9580
	FS5012	<i>C. siamense</i>	0.1223	$y=1.0888x+5.9934$	0.9945
	FSG1022	<i>C. siamense</i>	0.1647	$y=1.4943x+6.1702$	0.9974
	JF2011	<i>C. siamense</i>	0.1476	$y=1.2719x+6.0567$	0.9985
	JFG1011	<i>C. siamense</i>	0.1232	$y=1.1994x+6.0904$	0.9935
	PG5031	<i>C. siamense</i>	0.2392	$y=1.3992x+5.8691$	0.9829
	ST1022	<i>C. siamense</i>	0.1634	$y=1.2365x+5.9726$	0.9765
	SWG1011	<i>C. siamense</i>	0.1722	$y=1.3765x+6.0515$	0.9938
	XQY1021	<i>C. siamense</i>	0.1263	$y=1.1953x+6.0739$	0.9987
	XGZ3011	<i>C. liaoningense</i>	0.0227	$y=1.7127x+7.8139$	0.9810
	XGZ3021	<i>C. sojae</i>	0.0414	$y=1.9385x+7.6806$	0.9795
	DGZ1071	<i>C. aenigma</i>	0.0102	$y=0.9357x+6.8596$	0.9342
	JF2391	<i>C. aenigma</i>	0.0124	$y=1.0537x+7.0072$	0.9541
	JF2392	<i>C. aenigma</i>	0.0101	$y=0.9698x+6.9315$	0.9759
	JZ1151	<i>C. aenigma</i>	0.0114	$y=1.2184x+7.3665$	0.9756
	LDH3011	<i>C. aenigma</i>	0.0105	$y=0.8625x+6.7063$	0.9616
	LDH4012	<i>C. aenigma</i>	0.0097	$y=0.8749x+6.7606$	0.9708
	DGZ1011	<i>C. fructicola</i>	0.0110	$y=1.0928x+7.1377$	0.9373
	DGZ1052	<i>C. fructicola</i>	0.0061	$y=1.0033x+7.2193$	0.9574
	JF2431	<i>C. fructicola</i>	0.0108	$y=1.3269x+7.6085$	0.9785
	JF2432	<i>C. fructicola</i>	0.0098	$y=1.2408x+7.4888$	0.9546

JFG1011	<i>C. fruticola</i>	0.0131	$y=0.8002x+6.5053$	0.9855
JZ1121	<i>C. fruticola</i>	0.0102	$y=1.2577x+7.4995$	0.9688
XGZ1021	<i>C. fruticola</i>	0.0061	$y=1.0647x+7.3537$	0.9881
DGZ1041	<i>C. gloeosporioides</i>	0.0133	$y=0.6280x+6.1774$	0.9642
DHS1011	<i>C. gloeosporioides</i>	0.0115	$y=0.9920x+6.9929$	0.9859
JF1021	<i>C. gloeosporioides</i>	0.0325	$y=0.9794x+6.4562$	0.9423
JFG1051	<i>C. gloeosporioides</i>	0.0119	$y=0.5553x+6.0680$	0.9193
JZ1031	<i>C. gloeosporioides</i>	0.0137	$y=0.8211x+6.5290$	0.9520
SW1011	<i>C. gloeosporioides</i>	0.0134	$y=0.9588x+6.7949$	0.9842
XGZ2011	<i>C. gloeosporioides</i>	0.0260	$y=0.7927x+6.2561$	0.9268
DHS2031	<i>C. siamense</i>	0.0254	$y=0.8819x+6.4066$	0.9549
FS5012	<i>C. siamense</i>	0.0222	$y=1.0095x+6.6688$	0.9810
FSG1022	<i>C. siamense</i>	0.0133	$y=1.0414x+6.9509$	0.9754
JF2011	<i>C. siamense</i>	0.0169	$y=0.8668x+6.5340$	0.9227
PG5031	<i>C. siamense</i>	0.0245	$y=1.4976x+7.4116$	0.9552
ST1022	<i>C. siamense</i>	0.0159	$y=1.0878x+6.9551$	0.9598
SWG1011	<i>C. siamense</i>	0.0198	$y=0.8724x+6.4853$	0.9421
XQY1021	<i>C. siamense</i>	0.0115	$y=0.9715x+6.8834$	0.9776