

Potential of *Colletotrichum typhae* H.C Greene mycoherbicide for bio-control of Southern cattail (*Typha domingensis* Pers.) plants

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Table 1. Pathogenicity of the *Colletotrichum typhae* isolate inoculated at room temperature in humid chamber. Viçosa-MG, UFV, 2019.

Family	Species/Variety	Result*
Anacardiaceae	<i>Mangifera indica</i> L./ Ubá	-
Apiaceae	<i>Daucus carota</i> L./Brasília	-
Araceae	<i>Pistia stratiotes</i> L.	-
Arecaceae	<i>Cocus nucifera</i> L./ Anã	-
Asteraceae	<i>Helianthus annuus</i> L. /UFV-10	-
Bromeliaceae	<i>Ananas comosus</i> (L.) Merr./ Pérola	-
Cannaceae	<i>Cana denudata</i> Rosc.	-
Caricaceae	<i>Carica papaya</i> L. /Formosa	-
Chenopodiaceae	<i>Beta vulgaris</i> L./Wonder	-
Commelinaceae	<i>Commelina bengalensis</i> L.	-
	<i>Tradescantia zebrina</i> Hort. ex Bosse.	-
	<i>Tradescantia pallida</i> (Rose) Hunt.	-
	<i>Callisia repens</i> (Jacq) L.	-
	<i>Commelina erecta</i> L.	-
Cyperaceae	<i>Cyperus esculentus</i> L.	-
	<i>Cyperus rotundus</i> L.	-
Euphorbiaceae	<i>Manihot esculenta</i> Crantz.	-
	<i>Hevea brasiliensis</i> Willd.	-
Euriocaulaceae	<i>Paepalanthus</i> sp.	-
Haloragaceae	<i>Myriophyllum aquaticum</i> (Vell.) Verdc	-

Fabaceae	<i>Glycine max</i> L. / UFV-16	-
	<i>Phaseolus vulgares</i> L.	-
	<i>Rachis hypogaea</i> L. / IAC-Jimbo	-
Juncaceae	<i>Eleocharis filiculmis</i> Kunth.	-
Lauraceae	<i>Persea americana</i> Mill. / Wagner	-
Liliaceae	<i>Allium cepa</i> L. / Monte Alegre	-
Malvaceae	<i>Gossypium hirsutum</i> L. / IAPAR 4PR.1	-
	<i>Gossypium hirsutum</i> L. / IAC - 22	-
Mayaceae	<i>Mayaca</i> sp.	-
Marantaceae	<i>Marantha</i> sp.	-
Moraceae	<i>Ficus carica</i> L. / Roxo de Valinhos	-
Musaceae	<i>Musa</i> sp./Prata	-
Myrtaceae	<i>Psidium guajava</i> L. / Campos	-
Poaceae	<i>Oryza sativa</i> L. / BR IRGA 409	-
	<i>Oryza sativa</i> L. / CICA-8	-
	<i>Echinochloa polystachya</i> (H.B.K.) Hitch	-
	<i>Saccharum</i> sp. / Cana Caiana	-
	<i>Zea mays</i> L.	-
	<i>Sorghum bicolor</i> (L.) Moench/ BR - 700	-
Pontederiaceae	<i>Eichhornia azurea</i> (Swartz) Kunth	-
	<i>Eichhornia crassipes</i> (Mart.) Solms	-
Rosaceae	<i>Prunus</i> sp / REDHAVEN	-
Rubiaceae	<i>Coffea arabica</i> L. / CATUAI - 2144	-
Rutaceae	<i>Citrus</i> sp. / Taiti	-
Solanaceae	<i>Nicotiana tabacum</i> L. / XALTHI	-
	<i>Lycopersicon sculentum</i> Mill. /Santa Clara	-
	<i>Capsicum annuum</i> L. / Casca Dura	-
Sparganiaceae	<i>Sparganicum</i> sp.	-

Strelitzaceae	<i>Strelitzia reginae</i> Banks	-
Typhaceae	<i>Typha domingensis</i> Pers.	+
Vitaceae	<i>Vitis</i> sp. /Niagara Rosada	-
Xyridaceae	<i>Xyris</i> sp	-
Zingiberaceae	<i>Zingiber officinale</i> Rosc.	-

* (+) presence of symptoms and signs of the pathogen, (-) absence of symptomatology.

Table 2. Description of the places of origin where symptomatically *T. domingensis* leaf samples were collected, geographical coordinates, climate, temperature and rainfall (Source: Climate-data. Org, 2015). Viçosa-MG, UFV, 2019.

Place of origin	Latitude (S)	Longitude (W)	*Climate	Temperature (°C)	Rainfall (mm)
Pacatuba (SE)	10° 27' 12"	36° 39' 05"	As	25.5	1.223
Brejo Grande (SE)	10° 25' 28"	36° 27' 44"	As	25.3	1.283
Propriá (SE)	10° 12' 40"	36° 50' 25"	Aw	25.9	821
Regência (ES)	19° 23' 27"	40° 04' 19"	Aw	24.3	1.213
Vila do Riacho (ES)	19° 49' 12"	40° 16' 22"	Aw	24.5	1.178
Barra do Riacho (ES)	19° 49' 24"	40° 04' 20"	Aw	24.5	1.162
Santa Cruz do Escalvado (MG)	20° 14' 09"	42° 48' 50"	Aw	22.1	1.146
Rio Doce (MG)	20° 14' 41"	42° 53' 45"	Aw	22.2	1.143
Ipatinga (MG)	19° 42' 23"	42° 34' 33"	Aw	23.8	1.143
São Francisco (MG)	15° 56' 55"	45° 51' 52"	Aw	23.6	1.053
Juazeiro (BA)	09° 24' 50"	40° 30' 10"	BSh	24.8	422
Paulo Afonso (BA)	09° 24' 22"	38° 12' 53"	BSh	25.8	540
Xingozinho (BA)	09° 32' 30"	38° 01' 59"	BSh	25.8	540

*Classification according to Köppen and Geiger (1928). <http://pt.climate-data.org/country/114/>

As and Aw (tropical savannah climate with dry winter season), with average temperature in any month of the year exceeding 18 °C.

Winter is dry, with average rainfall less than 60 mm in at least one of the months of this season. BSh (hot semi-arid climate), with average temperature of the hottest month of the year 27.8 ° C. With a dry season during the year, with average rainfall in the driest month around 8 mm. Most of the rainfall occurs in March with an average of 83 mm.