

Table S1 Yeast species and strains belonging to phylum Ascomycota and phylum Basidiomycota

Taxa	Strain	No. of strain
Phylum Ascomycota, Subphylum Saccharomycotina		
<i>Candida citri</i>	DMKU-RE05	1
<i>Candida diddensiae</i>	DMKU-RP155	1
<i>Candida fermentati</i>	DMKU-CP79	1
<i>Candida floricola</i>	DMKU-CP149	1
<i>Candida fukuyamaensis</i>	DMKU-CP312	1
<i>Candida intermedia</i>	YE-20	1
<i>Candida maltose</i>	DMKU-RP16	1
<i>Candida metapsilosis</i>	DMKU-RE07, DMKU-RE15, DMKU-RE18, DMKU-RE35	4
<i>Candida michaelii</i>	YE239	1
<i>Candida nivariensis</i>	DMKU-CE15, DMKU-CE18	2
<i>Candida parapsilosis</i>	DMKU-RP300, DMKU-SP64, DMKU-SP434	3
<i>Candida pseudointermedia</i>	DMKU-CE37, DMKU-CE59, DMKU-CE87, DMKU-CE142	4
<i>Candida saopaulonensis</i>	DMKU-CP708	1
<i>Candida sp.</i>	DMKU-CE01	1
<i>Candida tropicalis</i>	DMKU-RE48, DMKU-RE68, DMKU-RP14, DMKU-CE04, DMKU-SE-73, DMKU-SE80, DMKU-SE98	7
<i>Candida uthaithanina</i>	DMKU-CP825	1
<i>Candida wangnamhkiaoensi</i>	YE-166	1
<i>Cyberlindnera minuta</i>	DMKU-CP557, DMKU-SE74	2
<i>Cyberlindnera rhodanensis</i>	DMKU-RE125, DMKU-SE04, DMKU-SE22, DMKU-SE29, DMKU-SE84	5
<i>Debaryomyces nepalensis</i>	DMKU-RP03	1
<i>Hyphopichia burtonii</i>	YE-164	1
<i>Kluyveromyces marianus</i>	DMKU-CE134	1
<i>Kodamaea ohmeri</i>	DMKU-RE27, DMKU-RP06, DMKU-RP34, DMKU-RP233, DMKU-CP51, DMKU-CP471, DMKU-CP258, DMKU-SP45	8
<i>Kodamaea sp.</i>	DMKU-SP81	1
<i>Metschnikowia lophuriensis</i>	DMKU-CP680	1
<i>Meyerozyma caribbica</i>	DMKU-RE37, DMKU-RE75, DMKU-RE87, DMKU-RE95, DMKU-RE102, DMKU-RP07, DMKU-RP47, DMKU-CE27, DMKU-CE32, DMKU-CE33, DMKU-CE35, DMKU-CE38, DMKU-CE51, DMKU-CE56, DMKU-CE77, DMKU-CE83, DMKU-CE119, DMKU-CE123, DMKU-CE140, DMKU-CE629, DMKU-CE783,	46

Taxa	Strain	No. of strain
	DMKU-CE503, DMKU-CE666, DMKU-CE813, DMKU-SE01, DMKU-SE10, DMKU-SE12, DMKU-SE12, DMKU-SE13, DMKU-SE28, DMKU-SE42, DMKU-SE46, DMKU-SE65, DMKU-SE76, DMKU-SE78, DMKU-SE86, DMKU-SE87, DMKU-SE93, DMKU-SE96, DMKU-SE97, DMKU-SE101, DMKU-SP01, DMKU-SP24, DMKU-SP121, DMKU-SP197, DMKU-SP461	
<i>Meyerozyma guilliermondii</i>	DMKU-RP26	1
<i>Pichia aff. fermentans</i>	DMKU-CP733	1
<i>Pichia kudriavzevii</i>	DMKU-CE48, DMKU-CP672, DMKU-SE109, DMKU-SE114, DMKU-SE117, DMKU-SE140, DMKU-SE144, DMKU-SE145	8
<i>Pichia myanmerensis</i>	DMKU-CP657	1
<i>Torulaspora indica</i>	DMKU-RP31, DMKU-RP35	2
<i>Wickerhamomyces anomalus</i>	DMKU-RE13, DMKU-RE38, DMKU-RE62, DMKU-RP04, DMKU-RP25, DMKU-CP122, DMKU-CP571, DMKU-CE52, DMKU-CE55, DMKU-SE112, DMKU-SE132, DMKU-SP335	12
<i>Yamadazyma epiphylla</i>	YE-170	1
Phylum Basidiomycota, Subphylum Agaricomycotina		
<i>Dioszegia zsoitii</i>	DMKU-SP116	1
<i>Kwoniella haveanensis</i>	DMKU-CE102, DMKU-SP237	2
<i>Hannella lutiola</i>	DMKU-CP282	1
<i>Hannella oryzae</i>	DMKU-CP174, YE-69, DMKU-CP775	3
<i>Hannella pagnoccae</i>	DMKU-CP636, DMKU-SP56	2
<i>Hannella phyllophila</i>	DMKU-CP648, DMKU-CP673, DMKU-SP186	3
<i>Hannella sinensis</i>	DMKU-CP437, DMKU-CP606, DMKU-CP665, DMKU-CP712, DMKU-CP181, DMKU-CP321, DMKU-SE105, DMKU-SP222, YE-56, YE-58	10
<i>Hannella siamensis</i>	DMKU-CP09, DMKU-CP631, YE-124	3
<i>Naganishia albidosimilis</i>	DMKU-CE74, DMKU-CE85	2
<i>Naganishia liquefaciens</i>	DMKU-CE05	1
<i>Papiliotrema aspenensis</i>	DMKU-CE31, DMKU-SP67, DMKU-SP423, YE-105	4
<i>Papiliotrema flavescens</i>	DMKU-CE11, DMKU-CE22, DMKU-CE129, DMKU-CE139, DMKU-CP654, DMKU-CP734, DMKU-SE92, DMKU-SP20, DMKU-SP231, YE-26, YE-127	11

Taxa	Strain	No. of strain
<i>Papiliotrema japonica</i>	DMKU-RE36, DMKU-SE03, DMKU-SE69, YE-135	4
<i>Papiliotrema laurentii</i>	DMKU-CE109, DMKU-CP560, DMKU-CP585, YE-23	4
<i>Papiliotrema nemorosus</i>	DMKU-RP276, DMKU-CP38, DMKU-CP391	3
<i>Papiliotrema rajasthanensis</i>	DMKU-CP10, DMKU-CP603, DMKU-CP823, DMKU-SP89	4
<i>Papiliotrema ruineniae</i>	DMKU-CP781, DMKU-CP818	2
<i>Papiliotrema siamense</i>	DMKU-RP152, DMKU-SP199, DMKU-SE34	3
<i>Papiliotrema</i> sp.	DMKU-RE45, DMKU-RE85, DMKU-CE70, DMKU-CE95, DMKU-CP115, DMKU-SE32, DMKU-SE67, DMKU-SE107	8
<i>Piskurozyma taiwanensis</i>	DMKU-SP98	1
<i>Saitozyma flava</i>	DMKU-RE19, DMKU-RE30, DMKU-CP150, DMKU-SE94, DMKU-SP117, DMKU-SP285	6
<i>Saitozyma</i> sp.	DMKU-SE48, DMKU-SE56	2
<i>Trichosporon asteroides</i>	YE-169	1
<i>Vishniacozyma taibaiensis</i>	YE-155	1
Phylum Basidiomycota, Subphylum Pucciniomycotina		
<i>Cystobasidium</i> sp.	DMKU-RE72	1
<i>Occultifer plantarum</i>	DMKU-RP30	1
<i>Occultifer</i> sp.	DMKU-SE45, DMKU-SE129	2
<i>Occultifer tropicalis</i>	DMKU-SE38, DMKU-SE59	2
<i>Rhodosporiobolus fluvialis</i>	DMKU-CP293	1
<i>Rhodosporiobolus ruineniae</i>	DMKU-CE136	1
<i>Rhodotorula mucilaginoso</i>	DMKU-RE113, DMKU-RP68, DMKU-CE05, DMKU-CE30, DMKU-CE91, DMKU-CE110, DMKU-CP165, DMKU-CP596, DMKU-SE81, DMKU-SE91, DMKU-SP02	11
<i>Rhodotorula paludigena</i>	DMKU-RP198, DMKU-CE132, DMKU-CP170, DMKU-CP218, DMKU-CP625, DMKU-CP752, , DMKU-SP381, YE-25	8
<i>Rhodotorula slooffiae</i>	DMKU-CP485	1
<i>Rhodotorula</i> sp.	DMKU-RE31, DMKU-CE121, DMKU-CP209, DMKU-SE27	4
<i>Rhodotorula taiwanensis</i>	DMKU-RE57, DMKU-RE64, DMKU-RE96, DMKU-RE106, DMKU-RE115, DMKU-RP252, DMKU-CE03, DMKU-CE49, DMKU-CE53, DMKU-CE61, DMKU-CE78, DMKU-CE80, DMKU-CE88, DMKU-CE94, DMKU-CE106,	20

Taxa	Strain	No. of strain
	DMKU-CE118, DMKU-CE126, DMKU-CP18, DMKU-SP35, DMKU-SP63	
<i>Rhodotorula toruloides</i>	DMKU-RP49, DMKU-CP570	2
<i>Sakaguchia oryzae</i>	DMKU-RP190	1
<i>Sporidiobolus carnicolor</i>	DMKU-SP75, DMKU-SP181	2
<i>Sporidiobolus pararoseus</i>	DMKU-RE112, DMKU-RP134, DMKU-CP183, DMKU-CP195, DMKU-CP305, DMKU-CP799, DMKU-SE11	7
<i>Sporobolomyces blumeae</i>	DMKU-CP601, DMKU-CP613, DMKU-SP12, DMKU-SP47, YE15	5
<i>Sporobolomyces nakasei</i>	DMKU-CP741	1
<i>Sporobolomyces carnicolor</i>	DMKU-RE14, DMKU-RE33, DMKU-RE44, DMKU-RE47	4
<i>Sporobolomyces</i> sp.	DMKU-RE104	1
<i>Symmetrospora marina</i>	DMKU-SP251, DMKU-SP281	2
<i>Symmetrospora vermiculata</i>	DMKU-RP33, DMKU-SP261, DMKU-SP307	3
Phylum Basidiomycota, Subphylum Ustilaginomycotina		
<i>Dirkmeia churashimeansis</i>	DMKU-RP27, DMKU-CP612, DMKU-CP692, DMKU-SP49, DMKU-SP97	5
<i>Jaminaea angkorensis</i>	DMKU-SP36, DMKU-SP416	2
<i>Moesziomyces aphidis</i>	DMKU-CP111, DMKU-CP220, DMKU-SP38, DMKU-SP95	4
<i>Moesziomyces parantarcticus</i>	DMKU-RP39	1
<i>Pseudozyma hubeiensis</i>	DMKU-SP13, YE-21	2
<i>Ustilago siamensis</i>	DMKU-SE62, YE-86	2

#

Table S2# Antagonistic activities of antagonistic yeast strains against *L. theobromae* and *C. gloeosporioides* by dual cultivation on PDA plates and activities of VOCs produced by these strains by double plate technique at 25°C for 3 and 14 days, respectively

Treatment	Fungal pathogens growth inhibition (%) ^a	
	Antagonistic activity	Activity of VOCs
<i>T. indica</i> DMKU-RP31 + <i>L. theobromae</i>	67.7±0.89a	51.3±7.54a
<i>T. indica</i> DMKU-RP35 + <i>L. theobromae</i>	67.9±4.40a	59.8±4.66a
<i>Ps. hubeiensis</i> YE-21 + <i>L. theobromae</i>	56.7±0.89b	34.4±4.34b
<i>P. aspenensis</i> DMKU-SP67 + <i>C. gloeosporioides</i>	66.3±3.74	55.6±2.86

In the same column data followed by the different, same, and overlapping lower-case letters means significantly different, and no significantly different of their overlapping to Duncan's multiple range test at $p \leq 0.05$. Each result presents the mean \pm standard derivation from three replicates

^aInhibition (%) = (radius of control fungal colony – radius of fungal colony grows with yeast) \times 100/radius of control fungal colony