

TABLE S1 Results of caspofungin susceptibility testing by the CLSI and ms-AFST methods for 65 clinical *C. albicans* isolates studied

Isolate designation ^a	Fks1 phenotype ^b		CLSI		ms-AFST			Concordant with <i>FKS1</i> genotype ^e
	Hot-spot 1	Hot-spot 2	MIC (µg/ml) ^c	S, I, or R category ^d	Null CCI (mean±SD)	Maximum CCI (mean±SD)	<i>P</i>	
UCSC11-070512	WT	WT	0.03	S	0.54±0.07	0.84±0.04	0.004	Y
UCSC10-070512	WT	WT	0.03	S	0.82±0.03	0.90±0.04	0.01	Y
UCSC15-070512	WT	WT	0.03	S	0.76±0.04	0.91±0.01	0.004	Y
UCSC9-070512	WT	WT	0.03	S	0.77±0.07	0.92±0.02	0.04	Y
UCSC6-070512	WT	WT	0.03	S	0.56±0.16	0.89±0.05	0.04	Y
UCSC3-070512	WT	WT	0.03	S	0.81±0.06	0.93±0.01	0.03	Y
UCSC1-070512	WT	WT	0.03	S	0.84±0.03	0.95±0.03	0.01	Y
UCSC2-070512	WT	WT	0.03	S	0.77±0.04	0.89±0.05	0.04	Y
UCSC64-080512	WT	WT	0.03	S	0.67±0.07	0.92±0.01	0.02	Y
UCSC63-080512	WT	WT	0.03	S	0.53±0.01	0.65±0.005	0.0003	Y
UCSC59-080512	WT	WT	0.03	S	0.58±0.03	0.78±0.05	0.04	Y
UCSC52-080512	WT	WT	0.03	S	0.76±0.08	0.92±0.04	0.02	Y
UCSC51-080512	WT	WT	0.03	S	0.69±0.11	0.87±0.06	0.03	Y
UCSC50-080512	WT	WT	0.03	S	0.70±0.06	0.87±0.05	0.007	Y
UCSC110-090512	WT	WT	0.03	S	0.76±0.05	0.85±0.01	0.02	Y
UCSC109-090512	WT	WT	0.03	S	0.77±0.05	0.90±0.05	0.01	Y
UCSC104-090512	WT	WT	0.015	S	0.61±0.04	0.79±0.08	0.02	Y
UCSC102-090512	WT	WT	0.03	S	0.74±0.005	0.82±0.02	0.0006	Y
UCSC101-090512	WT	WT	0.03	S	0.72±0.05	0.89±0.02	0.001	Y
UCSC99-090512	WT	WT	0.03	S	0.84±0.02	0.88±0.03	0.03	Y
UCSC98-090512	WT	WT	0.03	S	0.77±0.02	0.83±0.03	0.01	Y
UCSC103-090512	WT	WT	0.03	S	0.60±0.09	0.78±0.04	0.03	Y
UCSC17-140512	WT	WT	0.03	S	0.75±0.03	0.88±0.04	0.01	Y
UCSC18-140512	WT	WT	0.03	S	0.66±0.05	0.89±0.03	0.03	Y
UCSC22-140512	WT	WT	0.03	S	0.79±0.06	0.94±0.05	0.01	Y
UCSC25-140512	WT	WT	0.03	S	0.85±0.02	0.92±0.01	0.003	Y
UCSC30-140512	WT	WT	0.03	S	0.81±0.04	0.96±0.005	0.02	Y
UCSC31-140512	WT	WT	0.03	S	0.79±0.06	0.93±0.01	0.006	Y
UCSC5-140512	WT	WT	0.03	S	0.78±0.04	0.86±0.03	0.03	Y
UCSC6-140512	WT	WT	0.03	S	0.69±0.05	0.90±0.01	0.0003	Y
UCSC54-030412	WT	WT	0.03	S	0.37±0.22	0.72±0.17	0.02	Y
UCSC9-100412	WT	WT	0.03	S	0.78±0.08	0.88±0.01	0.04	Y
UCSC12-100412	WT	WT	0.03	S	0.68±0.08	0.83±0.08	0.04	Y
UCSC52-030412	WT	WT	0.03	S	0.71±0.01	0.91±0.02	0.001	Y
UCSC89-040412	WT	WT	0.03	S	0.74±0.04	0.93±0.05	0.04	Y
UCSC4-100412	WT	WT	0.03	S	0.84±0.04	0.94±0.03	0.007	Y
UCSC20-160412	WT	WT	0.03	S	0.75±0.07	0.89±0.01	0.008	Y
UCSC15-150412	WT	WT	0.03	S	0.72±0.09	0.89±0.01	0.01	Y
UCSC104-180412	WT	WT	0.03	S	0.59±0.04	0.90±0.01	<0.0001	Y
UCSC64-170412	WT	WT	0.015	S	0.77±0.06	0.91±0.01	0.04	Y
UCSC103-180412	WT	WT	0.03	S	0.78±0.05	0.92±0.01	0.001	Y
UCSC89-170412	WT	WT	0.03	S	0.73±0.10	0.92±0.02	0.01	Y
UCSC94-040412	WT	WT	0.03	S	0.77±0.04	0.90±0.02	0.02	Y
UCSC79-170412	WT	WT	0.03	S	0.74±0.02	0.83±0.02	0.003	Y
UCSC67-150512	WT	WT	0.03	S	0.69±0.06	0.88±0.03	0.002	Y
UCSC57-150512	WT	WT	0.03	S	0.77±0.005	0.87±0.03	0.002	Y
UCSC68-150512	WT	WT	0.03	S	0.82±0.05	0.91±0.02	0.02	Y
UCSC55-150512	WT	WT	0.03	S	0.79±0.01	0.89±0.02	0.0006	Y
UCSC63-150512	WT	WT	0.03	S	0.74±0.06	0.94±0.05	0.005	Y

UCSC54-150512	WT	WT	0.03	S	0.67±0.02	0.94±0.02	<0.0001	Y
UCSC64-150512	WT	WT	0.03	S	0.83±0.10	0.91±0.01	0.16	ND
UCSC52-150512	WT	WT	0.03	S	0.79±0.05	0.94±0.02	0.03	Y
DSP1012	D648Y	WT	4	R	0.82±0.01	0.86±0.01	0.04	N
DSP1006	F641L	WT	2	R	0.97±0.01	0.74±0.05	0.0002	Y
DSP1007	F641S	WT	4	R	0.95±0.02	0.79±0.01	<0.0001	Y
DSP1010	S645F	WT	2	R	0.90±0.08	0.62±0.13	0.01	Y
DSP1011	S645F	R1361R/H	4	R	0.97±0.01	0.82±0.05	0.002	Y
DSP21	S645P	WT	32	R	0.97±0.005	0.73±0.10	0.002	Y
DSP1009	S645F	WT	4	R	0.98±0.01	0.86±0.03	0.003	Y
DSP1013	P649H	WT	2.52	R	0.95±0.03	0.82±0.05	0.02	Y
DSP1040	WT	R1361H	2	R	0.82±0.05	0.81±0.16	0.91	ND
DSP1014	WT	R1361R/H	1	R	0.87±0.05	0.82±0.08	0.21	ND
UCSC41-250612	S645P	WT	4	R	0.93±0.04	0.60±0.08	0.0004	Y
UCSC78-270612	S645P	WT	4	R	0.93±0.01	0.47±0.10	0.0001	Y
UCSC100-110612	S645P	WT	4	R	0.81±0.02	0.57±0.04	0.0001	Y

^aIsolates are designated by source as follows: UCSC, culture strain collection of the Università Cattolica del Sacro Cuore (Rome, Italy); and DSP, culture strain collection of the UMDNJ-New Jersey Medical School (Newark, NJ, USA).

^bWT, wild-type at mutational hot-spot Fks1 regions. Otherwise, the specific amino acid substitutions harbored by mutant isolates are indicated.

^cShown are geometric means values (three repetitions from separate preparations) for minimal inhibitory concentrations (MICs) as determined by the CLSI reference method.

^dIsolate categorization was assessed according to the CLSI breakpoints for caspofungin and *C. albicans* that are ≤0.25 µg/ml (S), 0.5 µg/ml (I) and ≥1 µg/ml (R), respectively.

^eResults by ms-AFST are expressed in terms of concordance with the absence or presence of *FKSI* hot-spot mutation(s), which was used as gold standard for susceptibility classification, and are designated as concordant (Y), not concordant (N), or not determined (ND) on the basis of statistically significant (Y or N) or not significant differences (ND) between the mean CCI values derived from the ‘null’ or ‘maximum’ spectral correlations (see text for details).