The DNA content of nongerminative variants of *Candida albicans*

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Candida albicans is an amictic, diploid zoopathogenic yeast. Under certain conditions the yeast cells form germ tubes. It is generally agreed that diploid cells of the fungus contain about 35-40 fg of DNA/cell (1). Nongerminative variants have been described (2) and were reported to have a haploid amount of DNA/cell while the parental cells had diploid amounts (3). We have collected a number of nongerminative variants and we report here that all strains from the different sources had the same amount of DNA/cell (average, 36.7 fg/cell) when determined chemically by a standard diphenylamine method (4).

Table: Amount of DNA/cell of germinative and nongerminative strains of *Candida albicans*.

Strain No.*	Original Designation	Refer- ence	Pheno- type(G/NG)**	Amount of DNA/cell (fg/cell)		
				No. of Assays	Range	Average
300	B311-10;3153A	2,3	G	6	29.3-39.0	34.9
301	B311-V6;6	2,3	NG	2	35.6,45.0	40.3
302	09	3	NG	2	35.3,37.5	36.4
303	9	3	NG	2	33.8,39.0	36.4
304	ATCC 28121	-	G	3	30.0,39.0	34.1
310	CA-2	unpub.	G	3	27.8-36.0	32.6
311	CA-U222	"	NG	1	-	40.5
319	CA-0524	"	NG	2	36.0,41.3	38.7

*301, 302, and 303 were nongerminative variants that arose spontaneously from 300 (2,3); 311 and 319 were nongerminative variants derived after UV-irradiation of 310; 304 is a standard strain of *C. albicans*.

**G, forms germ tubes; NG, does not form germ tubes.

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