

TABLE 4. *Cell surface enzyme activity in S. cerevisiae*

Ploidy	Enzyme activity	Mean cell surface area ( $\mu\text{m}^2$ )	Mean cell volume ( $\mu\text{m}^3$ )
<i>Acid phosphatase</i> ( $\mu\text{g}$ of $\text{PO}_4$ /min per $10^7$ cells $\pm$ SEM)			
Haploid*	5.21 $\pm$ 0.12	84.7 $\pm$ 2.7	61.1 $\pm$ 2.2
Diploid†	7.50 $\pm$ 0.37	117.4 $\pm$ 3.2	99.2 $\pm$ 2.8
Diploid/ haploid	1.44	1.39	1.62
<i>Invertase</i> ( $\mu\text{g}$ of dextrose/min per $10^7$ cells $\pm$ SEM)			
Haploid	5.69 $\pm$ 0.38	89.1 $\pm$ 1.6	61.5 $\pm$ 1.3
Diploid	8.94 $\pm$ 0.82	122.6 $\pm$ 2.0	97.3 $\pm$ 2.0
Diploid/ haploid	1.57	1.38	1.58

\* XC500B only.

† SCD3-1 only.