TABLE I

Atomic absorption measurement of cellular copper content

Cultures were grown to $A_{660\ nm} = 1.0$ in medium containing [Cu^{2+}] as indicated. Cells were washed five times with MES-glucose buffer and then resuspended in the same buffer to $A_{660\ nm} = 1.5$. For copper uptake, 10 μM $Cu \cdot His_2$ was added; at the indicated time 1 ml of culture was taken for analysis by flameless atomic absorption spectophotometry. Values are means ± S.E. ($n = 4$). Strain designations are: WT, wild type, AS2-2A; CUP1Δ, 51.2-2, thionein deletion strain.

Strain, medium	Time of incubation		
	0 min	60 min	120 min
	nmol copper/mg protein		
WT, Cu^{2+}-free	<0.3	6.0 ± 0.4	7.2 ± 0.4
WT, 5 μM Cu^{2+}	11.4 ± 0.8	16.5 ± 1.0	16.8 ± 1.1
CUP1Δ, Cu^{2+}-free	<0.3	6.4 ± 0.3	7.4 ± 0.4
CUP1Δ, 5 μM Cu^{2+}	3.2 ± 0.2	7.6 ± 0.4	8.1 ± 0.5