

Table 1: Cellular RNA content and proportion of total RNA that is rRNA from several studies, and calculation of the cellular ribosome content.

Total RNA content (g/cell)	rRNA proportion in total RNA	Ribosomes (molecules/cell) ^a	Study
7.6×10^{-13}	80%		[27]
4.9×10^{-13}	84%		[30]
5.8×10^{-13}	83%		[25]
7.0×10^{-13}			[29]
10.0×10^{-13}			[28]
$7.1 \pm 1.9 \times 10^{-13}$	85% $83 \pm 2\%$	$187,000 \pm 56,000$	[26]

The last row contains averages.

^acalculated as (total RNA * rRNA proportion)/MW*N_A; where MW is the total molecular weight of ribosomal RNA contained within a ribosome (1.9×10^6 g/mol, from <http://mips.gsf.de/proj/yeast/rna/rna.html>), and N_A is Avogadro's number (6.022×10^{23} mol⁻¹).

25. Boehlke KW, Friesen JD: **Cellular content of ribonucleic acid and protein in *Saccharomyces cerevisiae* as a function of exponential growth rate: calculation of the apparent peptide chain elongation rate.** *J Bacteriol* 1975, **121**(2):429-433.
26. Schweizer E, Halvorson HO: **On the regulation of ribosomal RNA synthesis in yeast.** *Exp Cell Res* 1969, **56**(2):239-244.
27. Udem SA, Warner JR: **Ribosomal RNA synthesis in *Saccharomyces cerevisiae*.** *J Mol Biol* 1972, **65**(2):227-242.
28. Waldron C, Jund R, Lacroute F: **The elongation rate of proteins of different molecular weight classes in yeast.** *FEBS Lett* 1974, **46**(1):11-16.
29. Waldron C, Lacroute F: **Effect of growth rate on the amounts of ribosomal and transfer ribonucleic acids in yeast.** *J Bacteriol* 1975, **122**(3):855-865.
30. Warner JR: **The economics of ribosome biosynthesis in yeast.** *Trends Biochem Sci* 1999, **24**(11):437-440.