

Table 1. Cleavage of Polymers at 25 and 100 °C

reaction	bond $t_{1/2}$		no. of bonds per polymer	$t_{1/2}$ per cleavage event	
	25 °C	100 °C		25 °C	100 °C
protein hydrolysis	400 years	5.5 weeks	123 (RNase A)	4 years	7 hours
polysaccharide hydrolysis	4.7×10^6 years	160 years	10^5 residues (glycogen)	50 years	12 hours
RNA hydrolysis	4 years	9 days	70 residues (tRNA)	20 days	3 hours
DNA hydrolysis	140 000 years	22 years	10^9 residues (human DNA)	1 month	2 hours