

TABLE III

Comparison of destabilizing residues in yeast and reticulocytes

The half-life data of Table I were combined with the assignments of specific destabilizing residues to different classes (primary, secondary, tertiary; type I, II, III) that have been established in the present work (Figs. 5, 6, and Table II). The resulting arrangement reveals a greater similarity between quantitative aspects of the yeast and reticulocyte N-end rules than is apparent from the arrangement in Table I.

		Half-life of <i>X</i> -βgal	
		Yeast (<i>in vivo</i>)	Reticulocytes (<i>in vitro</i>)
Primary destabilizing residue <i>X</i>			
Type I	Arg	2 min	1.0 h
	Lys	3 min	1.3 h
	His	10 min	3.5 h
Type II	Phe	3 min	1.1 h
	Leu	3 min	5.5 h
	Trp	3 min	2.8 h
	Tyr	10 min	2.8 h
	Ile	30 min	20 h
Type III	Ala	>20 h	4.4 h
	Ser	>20 h	1.9 h
	Thr	>20 h	7.2 h
Secondary destabilizing residue <i>X</i>			
	Asp	3 min	1.1 h
	Glu	30 min	1.0 h
	Cys	>20 h	1.2 h
Tertiary destabilizing residue <i>X</i>			
	Asn	3 min	1.4 h
	Gln	10 min	0.8 h