

TABLE 4. *Variation of synthetases per genome in different media*

Synthetase	No. of synthetase molecules per genome ^a in medium			
	Acetate (<i>k</i> = 0.38)	Glycerol (<i>k</i> = 0.77)	Glucose (<i>k</i> = 1.03)	Rich (<i>k</i> = 1.98)
ArgRS	192	384	510	867
GlnRS	297	563	676	853
GluRS	308	485	539	873
GlyRS	222	379	412	676
IleRS	425	681	885	1053
LeuRS	237	486	597	(1,015) ^b
LysRS	132	236	333	483
PheRS	232	551	649	746
ThrRS	184	293	346	654
ValRS	155	298	425	629

^a The values for cells grown in glucose medium were taken from column 3 of Table 3. For the other media, these values were corrected for the appropriate amount of protein per genome equivalent of DNA (acetate: 2.86×10^{10} daltons; glycerol: 3.85×10^{10} daltons; glucose 4.4×10^{10} daltons; rich: 4.4×10^{10} daltons; reference 5) and for the variation in synthetase amount per amount of total protein (Fig. 2, ³H/¹⁴C data for all synthetases except ³H/³⁵S for LeuRS).

^b Since the ³⁵S labeling protocol used a rich medium lacking methionine, the LeuRS data were extrapolated to estimate a value for *k* = 1.98.