TABLE II

Calculation of E1 Concentration in Intracellular Membranes

Membrane	Surface area	Protein dwell time	No. of E1 mols	Concentration calculated
	μm^2	*min*		$E1/\mu m^2$
ER	19,400	15	1.8×10^6	93
Golgi	2,100	15	1.8×10^6	860
PM	3,400	—	—	—
Virus	0.008	—	180	22,000

The value used for the rate of synthesis of E1 was 1.2×10^5 mols/cell/min. Surface area of membranes is from Griffiths et al. (1984), protein dwell times from Green et al. (1980). Surface area of virus was calculated from data from Simons & Warren (1983) for capsid diameter and from Harrison et al. (1971) for membrane thickness. The value of 180 mols E1 is also from Simons & Warren (1983); this number is still in doubt, and some data suggest the figure may be as high as 240 (Bonsdorff & Harrison, 1975).

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