

TABLE I

*Reduction charges measured by enzymatic method<sup>a</sup>*

*Escherichia coli* was grown in glucose medium with vigorous aeration in a fermentor. Samples were taken at  $A_{450}$  between 1 and 4, directly into cold perchloric acid, or at KOH at 100° and analyzed as described by Estabrook and Maitra (14).

Nucleotide	Concentration	Number of analyses
	<i>μmol/g cell dry weight</i>	
NAD <sup>+</sup>	8.6 ± 2.0	7
NADH	1.1 ± 0.2	3
NADP <sup>+</sup>	1.0 ± 0.2	4
NADPH	1.3 ± 0.3	4

<sup>a</sup> Anabolic reduction charge, 0.57. Catabolic reduction charge, 0.11. Amount of the two nicotinamide adenine dinucleotide phosphates, 0.19, as fraction of the total four nicotinamide nucleotides.