Table I. Psuedo first order reaction rates of L-histidine and luciferase in Sensitox II and SSS photosensitization reactions. The error associated with rate determinations was approximately \pm 15 %

Photosensitization reaction	L-Histidine Rate of Oxidation	Luciferase	
		Rate of Inactivation	†Relative rate of Reaction with 10,
	(s ⁻¹)	(s ⁻¹)	(M ⁻¹ s ⁻¹)
Sensitox II	2.8×10^{-3}	1.2 x 10 ⁻²	1.2 x 10 ⁸
SSS	3.4 x 10 ⁻⁵	62.3 x 10 ⁻⁴	61.9 x 10°

 $^{^{\}dagger}Relative$ to reaction rate constant for L-histidine with singlet oxygen. $^{\delta}Photosensitization$ reaction buffer contained no MgSO...