

TABLE 2. *Estimated synthetic rates in Euglena as a function of light intensity, calculated from the mean values of Table 1 as described in the text.*

Intensity	Units						
	Ft-c	65	120	190	400	1200	3000
Dry mass	$\mu\mu\text{g}/\text{cell}/\text{hr}$	13.0	20.4	29.7	40.4	52.7	47.7
Protein	$\mu\mu\text{g}/\text{cell}/\text{hr}$	4.22	8.13	12.0	15.7	15.14	14.2
Chlorophyll <i>a</i>	$\mu\mu\text{g}/\text{cell}/\text{hr}$	.774	1.01	1.295	1.14	.562	.404
Chlorophyll <i>b</i>	$\mu\mu\text{g}/\text{cell}/\text{hr}$	.15	.163	.205	.24	.106	.0737
Carotenoids	$\mu\mu\text{g}/\text{cell}/\text{hr}$	.166	.234	.328	.319	.248	.228
RNA	$\mu\mu\text{g}/\text{cell}/\text{hr}$	.42	1.006	1.96	2.72	2.70	2.26
DNA	$\mu\mu\text{g}/\text{cell}/\text{hr}$	.0794	.128	.205	.290	.246	.168
Volume	$\mu^3/\text{cell}/\text{hr}$	107	146	189	257	234	226
Paramylum	$\mu\mu\text{g}/\text{cell}/\text{hr}$	.888	.94	3.17	12.35	24.4	22.8
“Lipids”	$\mu\mu\text{g}/\text{cell}/\text{hr}$	4.46	6.12	7.83	10.15	8.9	6.76