

TABLE III

*Measured metabolite contents of tissues*

Metabolite values are given as  $\mu$ micromoles/g of intracellular water  $\pm$  standard error. The intracellular H<sub>2</sub>O content of red cells was taken to be 0.7 times wet weight, while that of other tissues was taken to be 0.8 times wet weight. For the methods of enzymatic analysis used, see text. The values in parentheses indicate number of observations.

	Human erythrocytes (7)	Rat brain (8)	Rat liver (9)	Rat muscle (6)
Lactate	0.921 $\pm$ 0.231	1.35 $\pm$ 0.05	1.36 $\pm$ 0.05	0.924 $\pm$ 0.082
Pyruvate	0.068 $\pm$ 0.008	0.102 $\pm$ 0.002	0.258 $\pm$ 0.018	0.095 $\pm$ 0.007
3-Phosphoglycerate	0.073 $\pm$ 0.004	0.018 $\pm$ 0.001	0.387 $\pm$ 0.011	0.038 $\pm$ 0.003
Dihydroxyacetone-P	0.017 $\pm$ 0.001	0.019 $\pm$ 0.001	0.043 $\pm$ 0.003	0.017 $\pm$ 0.002
Creatine	~0	6.11 $\pm$ 0.07	~0	12.8 $\pm$ 0.091
Creatine-P	~0	4.72 $\pm$ 0.07	~0	26.6 $\pm$ 0.153
ATP	2.25 $\pm$ 0.13	2.59 $\pm$ 0.03	3.38 $\pm$ 0.08	8.05 $\pm$ 0.049
ADP	0.248 $\pm$ 0.009	0.726 $\pm$ 0.018	1.32 $\pm$ 0.05	0.926 $\pm$ 0.067
AMP	0.022 $\pm$ 0.001	0.059 $\pm$ 0.002	0.294 $\pm$ 0.026	0.043 $\pm$ 0.004
P <sub>i</sub>	1.65 $\pm$ 0.12	2.72 $\pm$ 0.06	4.76 $\pm$ 0.16	8.00 $\pm$ 0.44