

Table II Estimated rates of protein synthesis of the different enzymes in *Arabidopsis* rosette in the dark and light periods

Enzyme	Estimated translation rate (mol h ⁻¹ g ⁻¹ FW)	
	Dark period	Light period
Ribulose-1,5-bisphosphate carboxylase (RubisCO)	6.34E-10	8.60E-10
Fructose-bisphosphate aldolase (aldolase)	2.84E-11	5.97E-11
NADP-glyceraldehyde 3-phosphate dehydrogenase (NADP-GAPDH)	2.94E-11	5.13E-11
Alanine aminotransferase (AlaAT)	2.35E-11	3.40E-11
NAD-glyceraldehyde 3-phosphate dehydrogenase (NAD-GAPDH)	1.48E-11	2.60E-11
NAD-malate dehydrogenase (NAD-MDH)	1.60E-11	2.03E-11
Nitrate reductase (NR)	2.30E-11	9.20E-12
Glutamine synthetase (GS)	1.41E-11	1.42E-11
Phosphoglycerokinase (PGK)	1.33E-11	1.41E-11
Triose phosphate isomerase (TPI)	8.24E-12	1.18E-11
ADP-glucose pyrophosphorylase (AGPase)	3.54E-12	5.94E-12
Phosphoenolpyruvate carboxylase (PEP carboxylase)	3.90E-12	4.75E-12
NADP-isocitrate dehydrogenase (NADP-IDH)	5.11E-12	3.35E-12
Transketolase (TK)	4.01E-12	3.58E-12
Aconitase	2.45E-12	4.44E-12
Pyruvate kinase (PK)	2.27E-12	3.07E-12
NADP-malate dehydrogenase (NADP-MDH)	2.27E-12	3.05E-12
Acid invertase (INV)	2.29E-12	2.05E-12
Glycerate kinase (GK)	1.32E-12	1.56E-12
Glucose-6-phosphate isomerase (PGI)	1.09E-12	1.77E-12
UDP-glucose pyrophosphorylase (UGPase)	9.04E-13	1.63E-12
Ferredoxin-glutamate synthase (Fd-GOGAT)	1.39E-12	1.14E-12
Phosphoglucomutase (PGM)	8.23E-13	1.44E-12
PPi-phosphofructokinase (PFP)	7.25E-13	1.18E-12
Fructose-1,6-bisphosphatase, cytosolic (cytFBPase)	6.29E-13	1.25E-12
Sucrose phosphate synthase (SPS)	7.92E-13	9.80E-13
Fructokinase (FK)	7.56E-13	9.20E-13
Fumarase (FUM)	4.92E-13	9.92E-13
Glucose-6-phosphate dehydrogenase (G6PDH)	7.57E-13	6.36E-13
Aspartate aminotransferase (AspAT)	4.96E-13	6.22E-13
NAD-isocitrate dehydrogenase (NAD-IDH)	4.49E-13	5.69E-13
NAD-glutamate dehydrogenase (NAD-GDH)	5.46E-13	3.08E-13
Glucokinase/hexokinase (HK)	2.40E-13	4.57E-13
ATP-phosphofructokinase (PFK)	3.06E-13	3.83E-13
Shikimate 5-dehydrogenase (Shikimate DH)	2.34E-13	3.62E-13

The raw data and calculations are provided in Supplementary Table II.