$v_{\rm m}^{}$  [umol $_{\rm metaboliteAssay}^{}$  mg $_{\rm P}^{-1}$  min $^{-1}$ ] Normalized @pH6.81 v<sub>HXK</sub>, NADPH v<sub>PGI</sub>, NADH v<sub>PFK</sub>, NADH v<sub>ALD</sub>, NADH v<sub>TPI</sub>, NADH v<sub>GAPDH</sub>, NADH v<sub>PGM</sub>, NADH v<sub>ENO</sub>, PEP , 6 v<sub>GAPDHr</sub>, **NADH** 0 <sup>L</sup> 0 <sup>L</sup> v<sub>PYK</sub>, NADH v<sub>PDC</sub>, NADH