

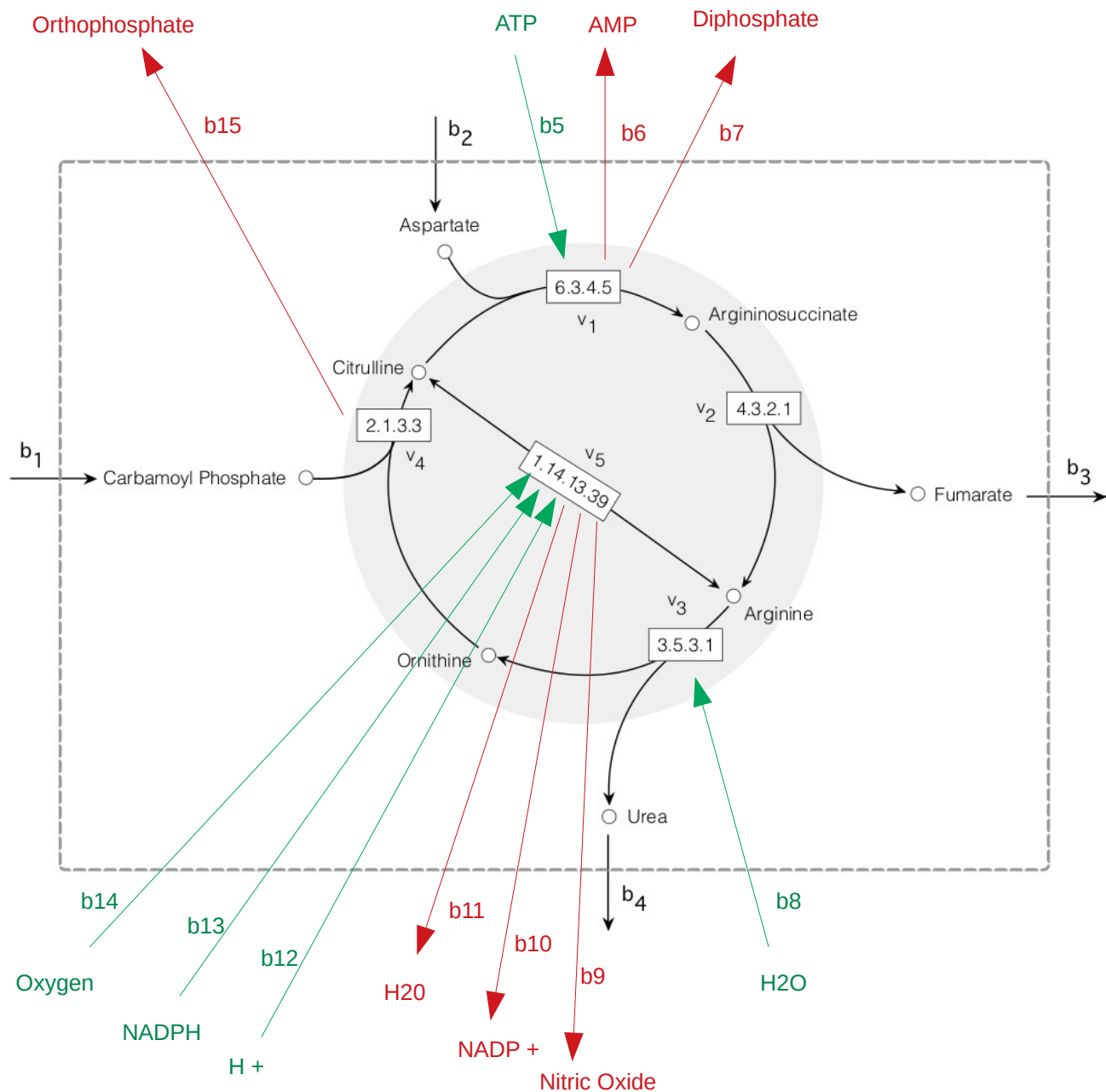
6.3.4.5:  $\text{ATP} + \text{L-Citrulline} + \text{L-Aspartate} \Rightarrow \text{AMP} + \text{Diphosphate} + \text{N-(L-Arginino)succinate}$

4.3.2.1:  $\text{N-(L-Arginino)succinate} \Rightarrow \text{Fumarate} + \text{L-Arginine}$

3.5.3.1:  $\text{L-Arginine} + \text{H}_2\text{O} \Rightarrow \text{L-Ornithine} + \text{Urea}$

2.1.3.3:  $\text{Carbamoyl phosphate} + \text{L-Ornithine} \Rightarrow \text{Orthophosphate} + \text{L-Citrulline}$

1.14.13.39:  $2 \text{ L-Arginine} + 4 \text{ Oxygen} + 3 \text{ NADPH} + 3 \text{ H}^+ \Leftrightarrow 2 \text{ Nitric oxide} + 2 \text{ L-Citrulline} + 3 \text{ NADP}^+ + 4 \text{ H}_2\text{O}$



TOTAL NUMBER OF COMPOUNDS (EXCEPT ENZYMES) = 18