

## UREA CYCLE

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### UREA CYCLE

**Function:** To provide a route to dispose of the amino groups from amino acids during their metabolism.

**Location:** Liver, kidney

**Connections:** *From* amino groups of amino acids through glutamate and glutamate dehydrogenase

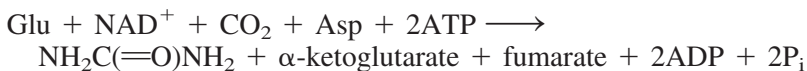
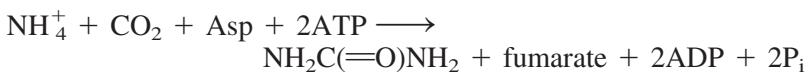
*From* amino groups of amino acids through aspartate and argininosuccinate synthase

*From* ammonia through carbamoyl phosphate synthetase

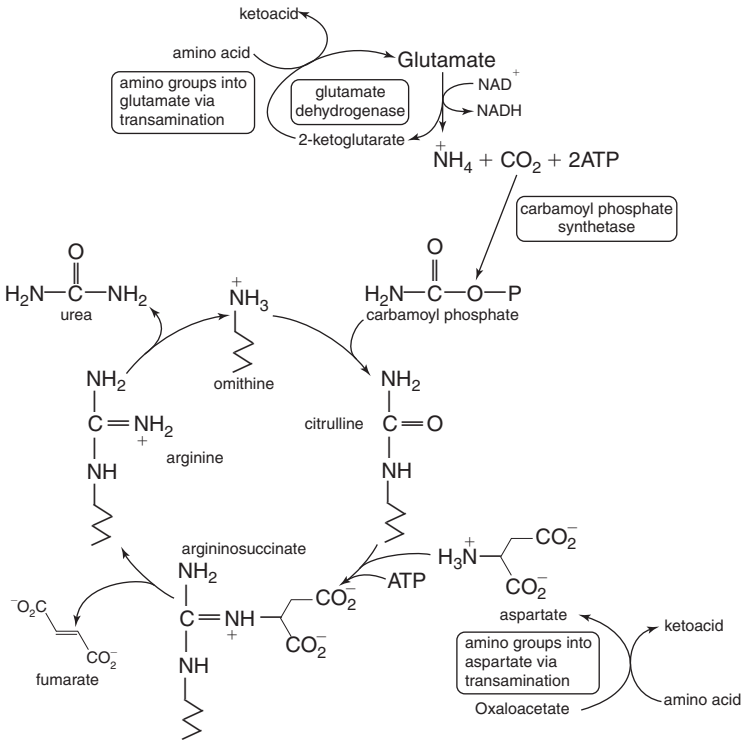
*To urea*

**Regulation:** Primarily by availability of amino groups and ammonia

**Equation:**



(See Fig. 18-1.)



**Figure 18-1 The Urea Cycle**