

Study guide ch 17

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17.1 Nitrogen fixation and assimilation

1. State the net reaction of nitrogen fixation in bacteria

Nitrogen fixation is conversion of nitrogen to ammonia

Reduction of N_2 to NH_3 or NH_4^+

Oxidation is N_2 to NO_2^- and NO_3^-

Ammonia is incorporated into glutamic acid by the action of glutamate synthase

2. State the net reaction of nitrogen assimilation in plants.

Glutamate \rightarrow ATP to ADP \rightarrow gamma glutamyl phosphate \rightarrow NH_4^+ \rightarrow Glutamine

NH_4^+ directly incorporated into amino acid

By plants and bacteria by using glutamine synthetase

3. List the three processes used to overcome the high-energy barrier required to break the N_2 triple bond.

Nitrogenase

Atmospheric Nitrogen fixation

Industrial process

4. State the nitrogenase reaction

$N_2 + 8H^+ + 8e^- + 16ATP + 16H_2O \rightarrow 2NH_3 + H_2 + 16ADP + 16P_i$

A multi subunit protein with redox center contain Fe, S and Mo also break the nitrogen triple bond.

5. Distinguish between Nitrosomonas and Nitrobacter in terms of the product of nitrification

Nitrosomonas is generated by NO_2^-

Nitrobacter is NO_2^- to NO_3^-

6. Recall the key elements of nitrogen cycle

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