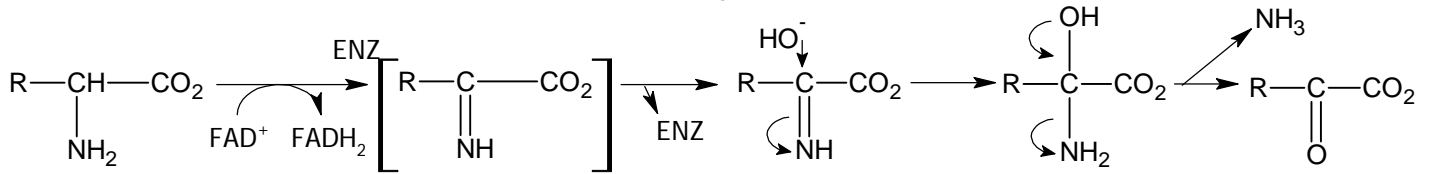


Playing with Ammonia: Bleach Not Allowed

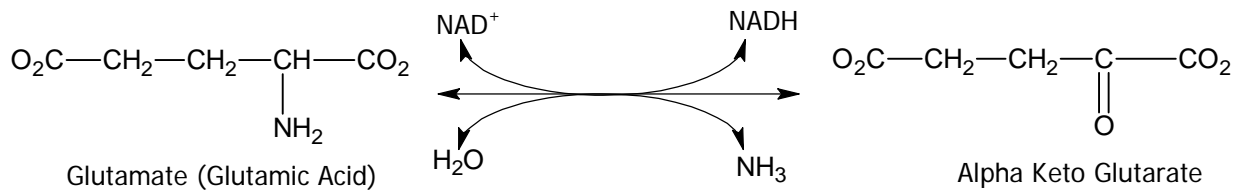
D+L Amino Acid Oxidases (use flavoproteins)

Non-reversible since the replacement of the C=N is non-enzymatic



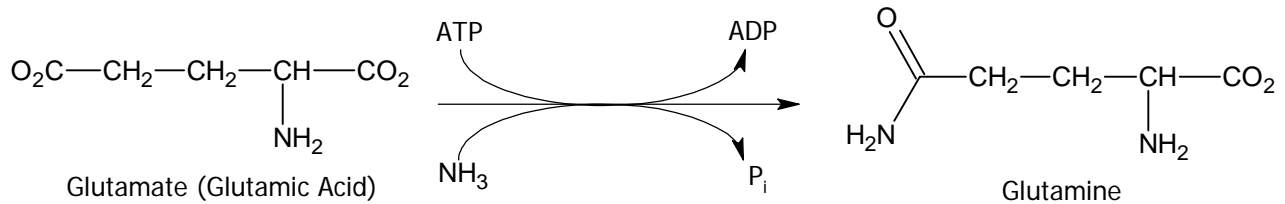
Glutamic Dehydrogenase

Used in reverse to utilize ammonia in animals, bacteria use it in the forward rxn only



Glutamine Synthetase

Uses ATP & involved in Purine Biosynthesis



Glutamate Synthase

Nitrogen source for Amino Acids

