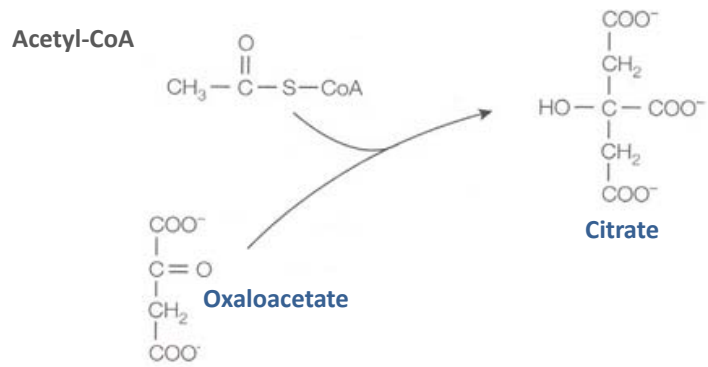
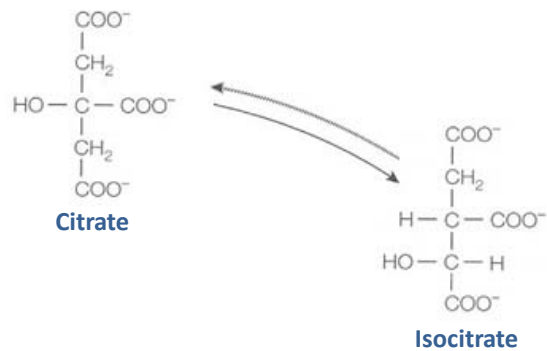


## (1) Condensation reaction



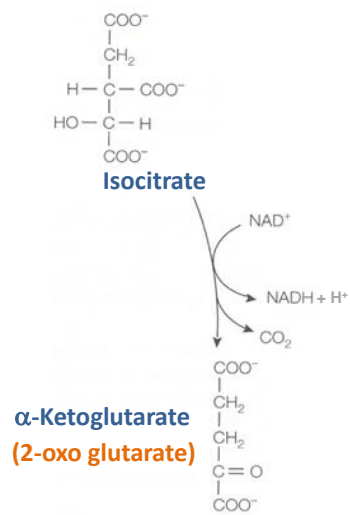
**Citrate synthase**

## (2) Isomerisation

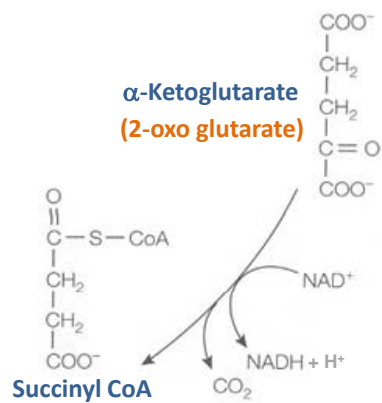


**Aconitase**

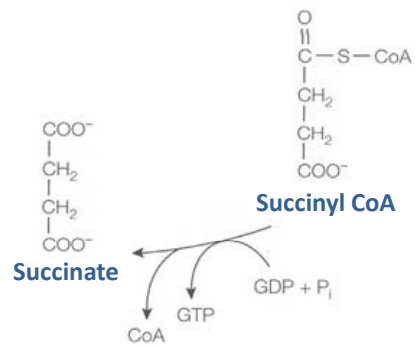
### (3) First loss of CO<sub>2</sub>



### (4) Second loss of CO<sub>2</sub>

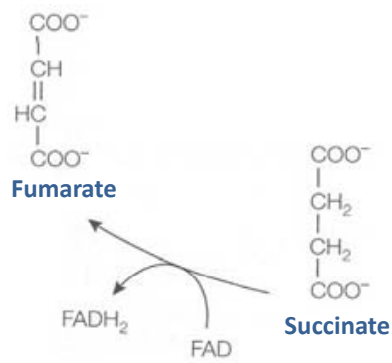


## (5) Trapping thioester bond energy as GTP



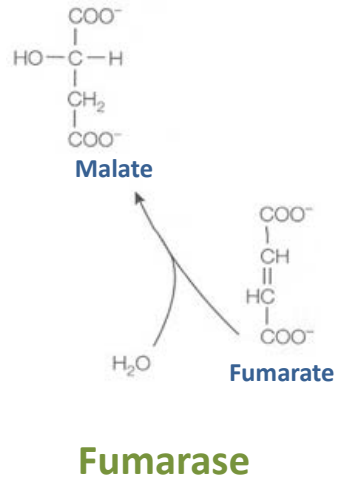
Succinate thiokinase

## (6) Conversion of succinate to fumarate

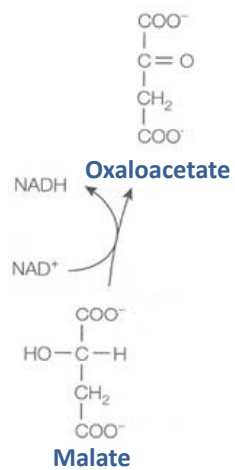


Succinate dehydrogenase

## (7) Conversion of fumarate to malate



## (8) Conversion of malate to oxaloacetate



# TCA cycle

