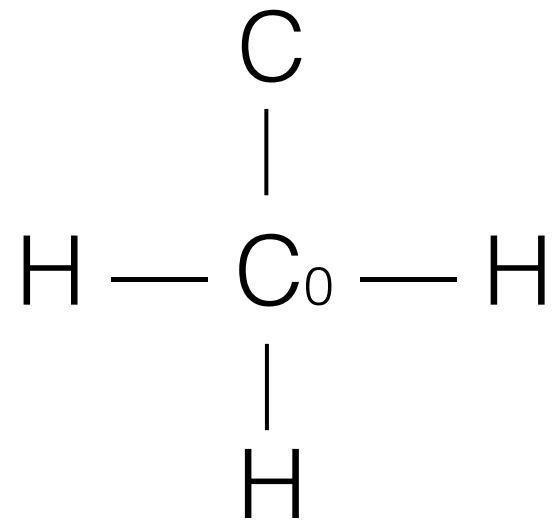
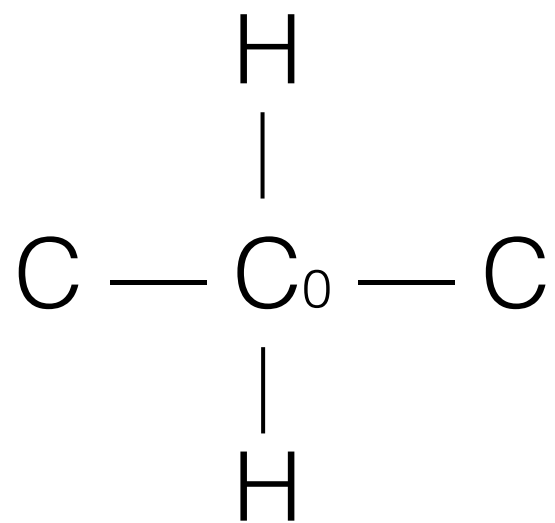
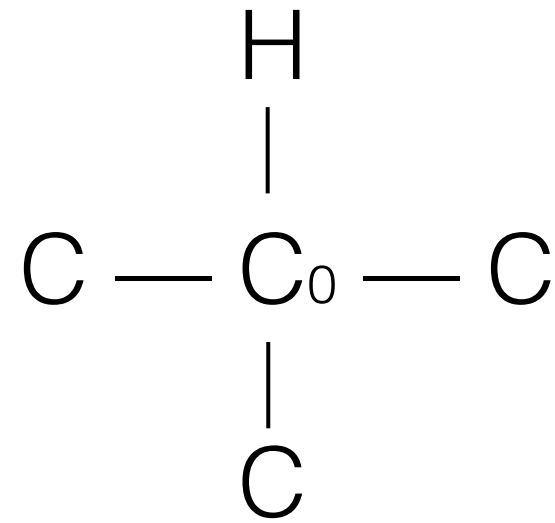
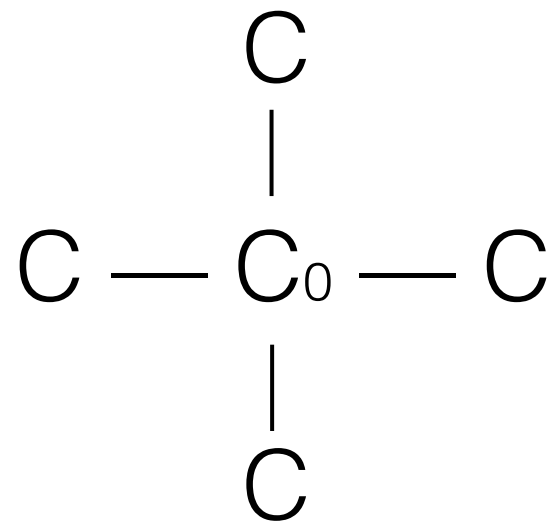


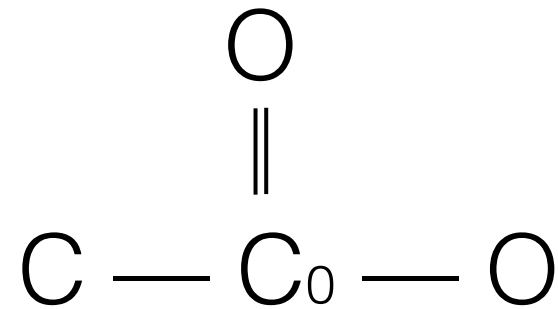
Possible combinations based on amino acids' structures

1) carbon and hydrogen (4)

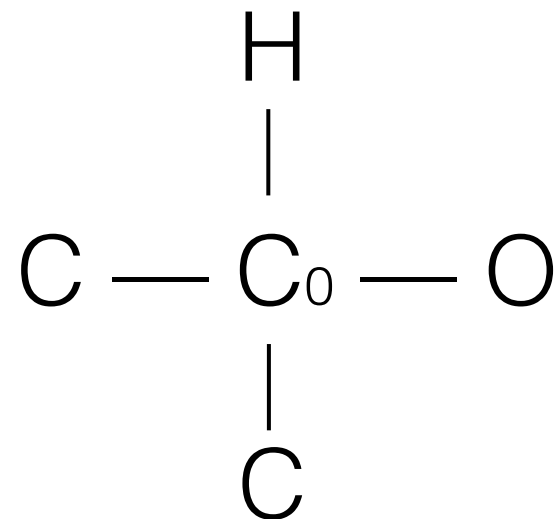


Possible combinations based on amino acids' structures

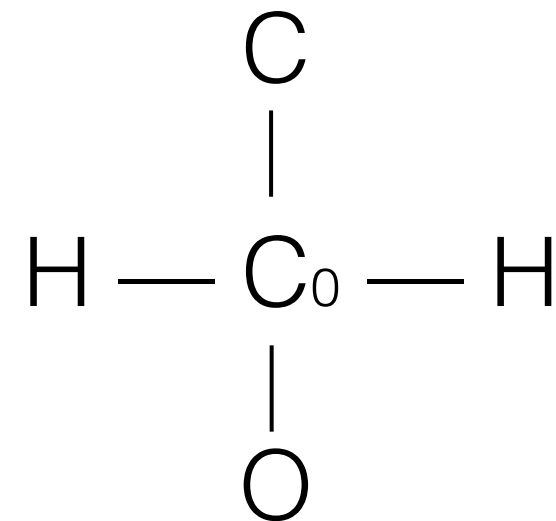
2) Oxygen involved (5)



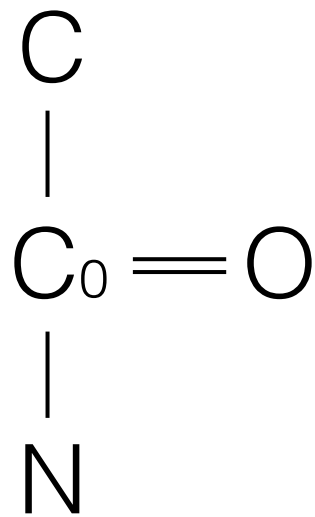
carboxyl group



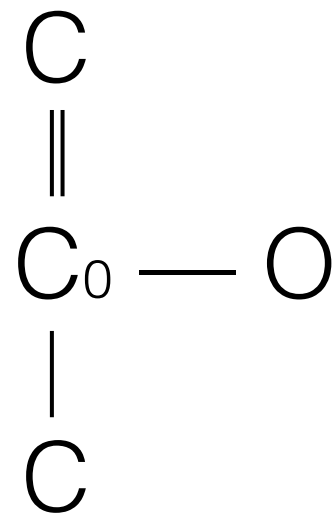
threonine



Serine



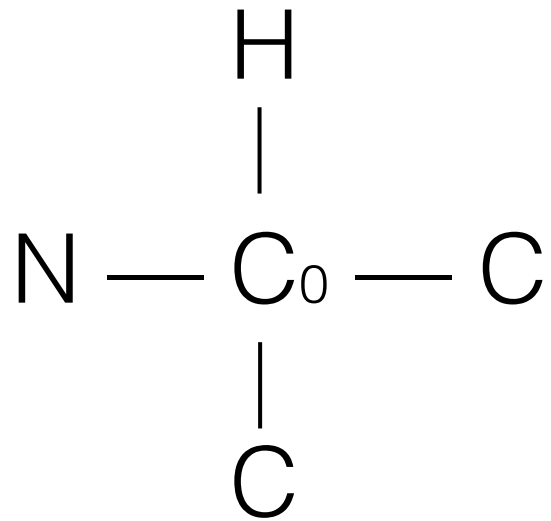
Glutamine



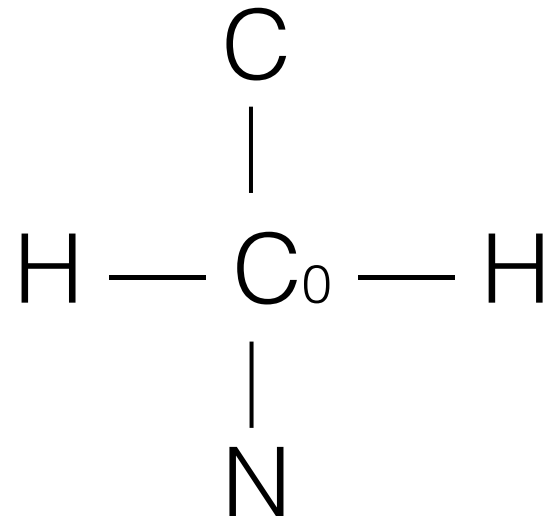
\*Tyrosine (c-loop)

## Possible combinations based on amino acids' structures

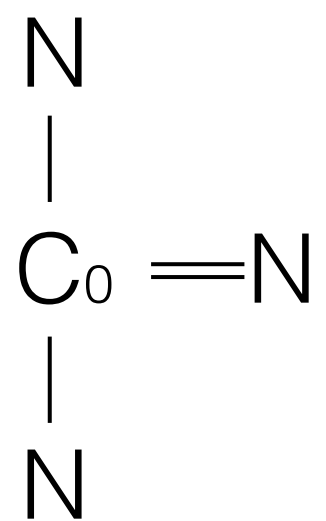
### 3) Nitrogen involved (5)



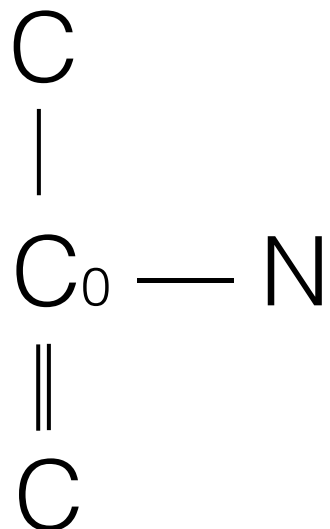
amine



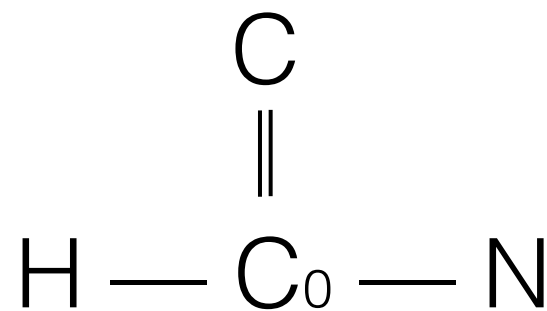
lysine



arginine



\*histidine (loop)



\*histidine (loop)