Type of Analytic Method

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1.END POINT METHOD

- In this method, the reaction between substrate (analyte) and a specific reagent react and form a colored complex.
- It require time period until reaction end.
- In end point, OD is taken at the end of reaction (completion of reaction)
- So, At the end of the reaction, the amount of product (colour complex) formed is in equil propotional to the substrate (analyte).

2.KINETIC METHOD

- In this method, if the concentration of the substrate is sufficiently high in comparison to enzyme then rate (velocity) of reaction is proportional to the concentration of enzyme.
- Thus the amount of product formed in a given period of time is proportional to the amount to concentration of enzyme present.
- OD is taken in time period of 1 min (delta OD)
- Delta OD = OD60second OD0 second
- In this method, the rate of reaction is proportional to the concentration of enzyme(analyte).

2.KINETIC METHOD

Principle of ALT:

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GPT
Alpha Ketoglutarate + alanine L-glutamate +
Puruvate

LDH
Pyruvate + NADH + H+

Lactate + NAD+
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More GPT
More NADH converted to NAD+
Decrease NADH propotional to concentration of GPT
More difference of OD of NADH in One Minute
More Delta OD
More GPT concentration

FIXED TIME KINETIC METHOD

PRINCIPLE OF CRETININE :

3. FIXED TIME KINETIC METHOD

- Velocity of reaction is measured in fix interval
- But Here in reaction, analyte is as substrate in reation.
- While in kinetic method, analyte is as enzyme.
- So, Analyte (substrate) is used up in reaction
- So , As Reaction goes on
 - Decrease substrate concentration
 - Decrease velocity of reaction
- So Delta OD is taken in very intial time period of reaction
- It is Called "Fix Time Kinetiv" Because
 - Analyte is as substrate in reaction, like End point method
 - Measuring velocity of reaction as Delta OD, Like Kinetic method