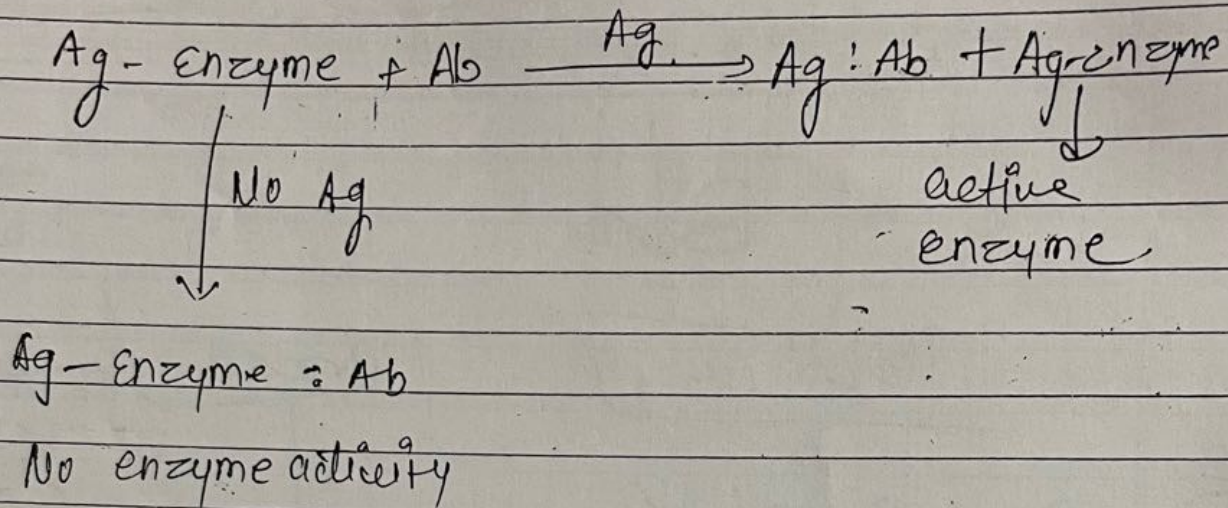
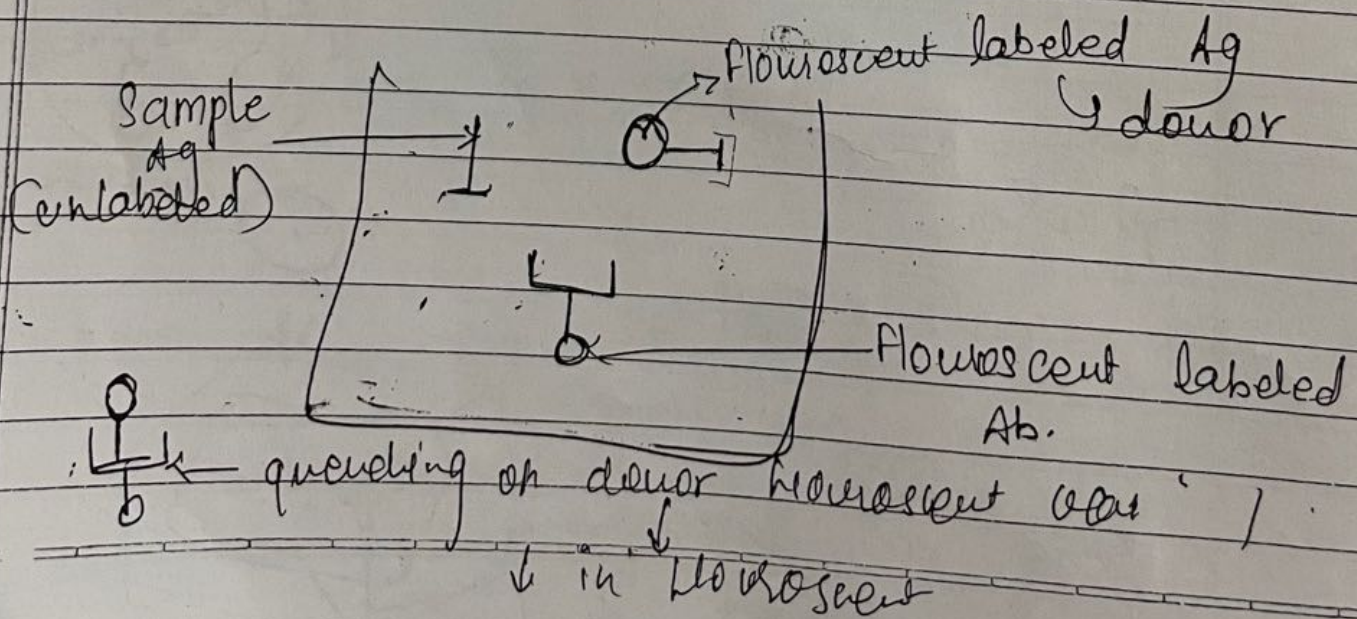
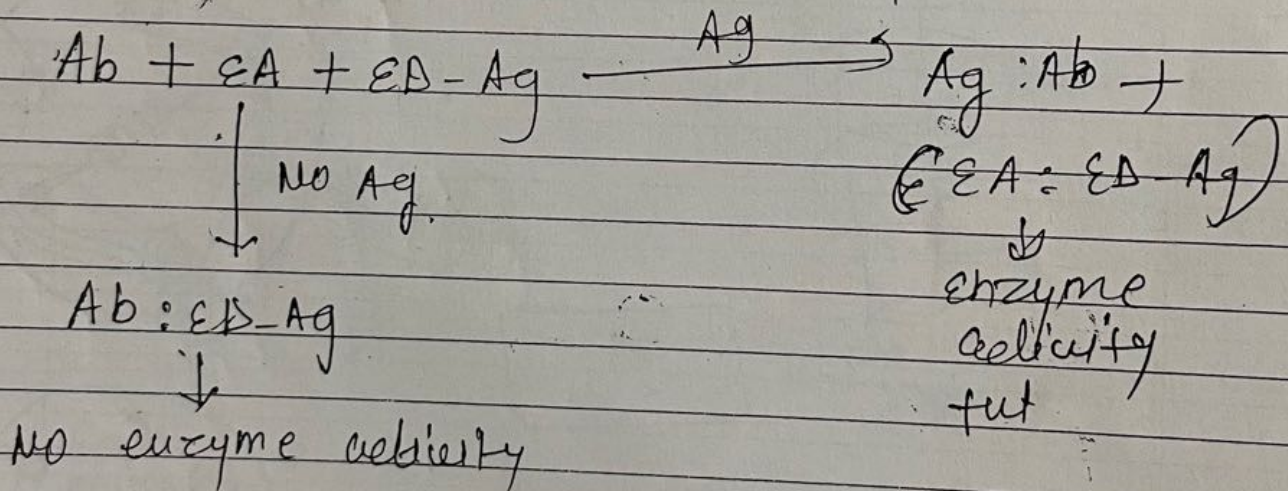


* Enzyme Multiplied Immunoassay Technique :-



→ CEDIA (Cloned enzyme Donor ImmunoAssay)



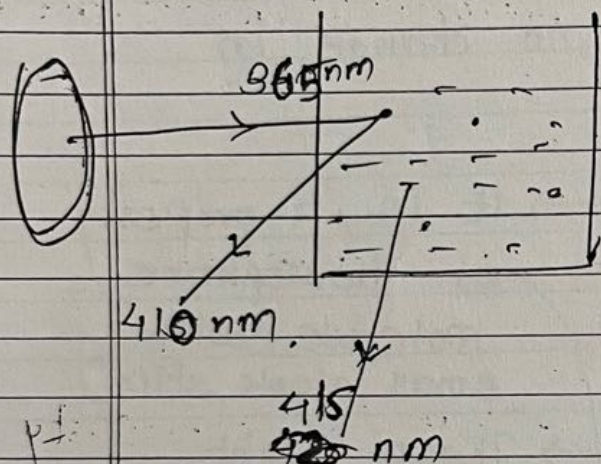
→ Raman scattering ~~emit~~ light ~~longer~~ than ~~excited~~ light.

→ Raman scattering emitted

→ It is a property of solvent.

→ It mainly interese with result when fluorophore concentration is very low.

→ Exo -



→ Water shift wavelength about 50 nm at 865 nm

So if emitted light of fluorophore is 415 nm when excitation light is 340 nm & light scattered by solvent (water) is about 425 nm

- So there is overlapping of spectra between solvent emitted wavelength & fluorophore emitted wavelength.

So these will be interference when narrow spectrum of light is emitted by solvent (substance) other than fluorophore

So positive interference occur.

* Controlled by narrowing the slit width on the excitation monochromator.

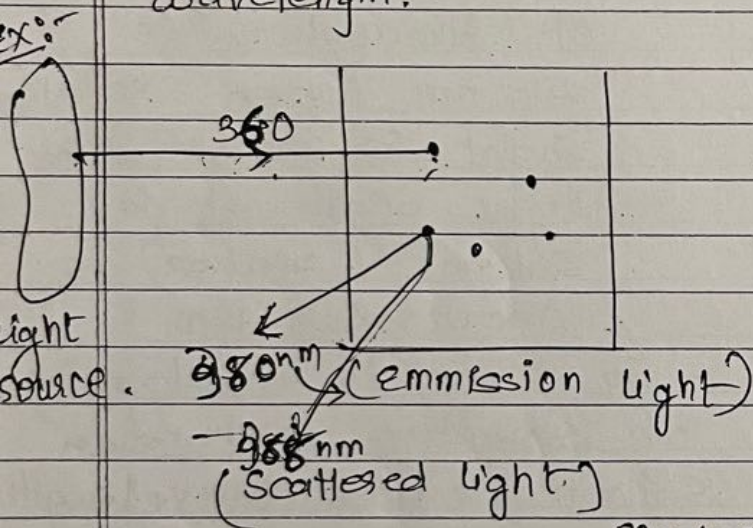
But it can decrease sensitivity also.

* Light Scattering :-

- two type of light scattering :
Raman & Rayleigh scattering which limits the use of fluorescence measurement.

* Rayleigh Scattering :-

- Scattering occurs with no change in wavelength.



→ it is a property of phosphore molecule (with small Stokes shift)

→ These light spectra overlaps.

↳ Excitation & emission

spectra overlap & susceptible to loss of sensitivity.

- This will be controlled by use of well defined emission & excitation interference filter, By appropriate monochromator setting & use of polarizers.

B'c of background light scatter.

* Raman Scattering :-

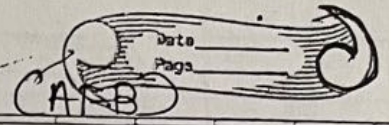
- Occurs with lengthening of wavelength.
- This scattering is independent of excitation source.

Soft

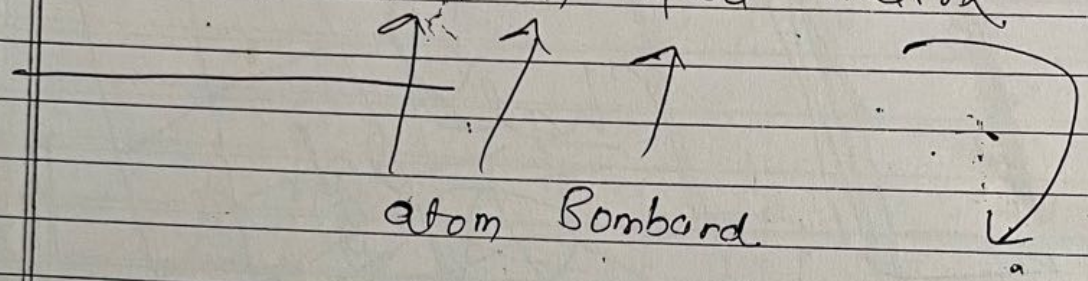
Ionization Fast

→ utilizes atom bombardment

→ Not utilize electrons



Sample + dissolved in liquid matrix



molecular ion

Solvent is released from it

→ requires in Heat labile substance, fragile sample.

rate
dies
re

ventilation