OFOLLEN'S TEST

- # All type of aldehyde
- Except: X- Mydroxy ketone (M3-"-c-CM2)
- => Glucose & fouctose
- =) Terminal alkyre eg. uc = Ch/, cy-c=ch/, cy-c=c/cy
- => formic acid
- @ Fehling's TEST: felling's isolution

fehling's soln + Fehling's soln
(A)
(B) ag. copper sulphate { Cuso, 51, 0} Rhe coloux

alkaline sodium potassium taxtaxte (Rochelle salt)

$$R-CHO + 2CHO \longrightarrow RCOO + CH_2O \downarrow + 34_2O$$
(Red)

coola

- -> Asomatic aldehyde cannot be oxidized By fehling's sol1.
- Alliphatic aldehyde V
- => Glucose & Fructose
- => Terminal Alkyne
- formic acid

Tollen's test > Fehling's Test

Fehling's Solⁿ & Tollen's reagent. Toller's Text Name of the compounds Fehling's test Glucose, Fructose, x-hydroxy ketone, &-hydroxy aldehyde, formic acid Glyoxal X Glyoxylic acid Succinaldehyde Pyruvaldehyde (Enzrocho) SCHIFF TEST: Aldehydes restore the magenta colour of the 2 chiff's reagent (Rosaline hydrochloride is dissolved in 1/20 & 502 is passed till the magenta colour is decolourized). - Ketones do not restore the colour of schiff's reagent except acetone, which restores the colour very slowly. . Aldehydes V IODOFORM TEST: CHI3 (Iodoform) Pale Yellow Coystalline solid (Yellow ppt) with Maprital like smell (-Antiseptic smell) which will give iodo form test? -> Carbonyl compound moi x-carbon ka pass 3- Hydrogen honor chaye! eg. = , C/2 - C/2 - ON (only poimary alcohol) => CH_2 CH-CH_CH_CH_CH_3, Ph-CH-CH_S (secondary alcohol) => Eng-C-H (only aldehyde), Chg-C-Chg, Chg-C-Chg, Ph-C-Chg CH3-CH-CH3, CH3-C-CH3,

The compounds that respond negatively to iodoform test are CN_-C-OM, CN3-C-CI, CN3-C-N42, CN3-C-OR, CN3-C-O-C-CN3, (43-5-42-6-04, c43-6-42-6-08t, c43-6-43 docho) Victor Meyer Test: OTO distinguish i, 2° 33° alcohol. ② 1°,2° & 3° alcohol → substrate (3) P+I2, AgNO2, HNO2, (9) 1° > 2° 73° $R \rightarrow Red \rightarrow 1^{\circ} alcohol$ B -> Blue -> 2° alcohol c -> Colourless - 3° alcohol 1° alcohol Cy-cy-on P+Iz Cy-Cy-I Ag Noz Cy-Cy-Noz HNOZ