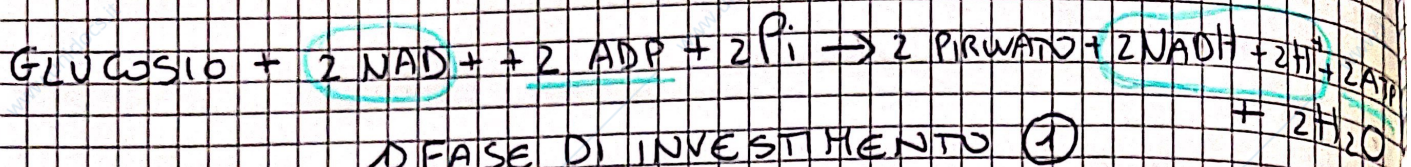


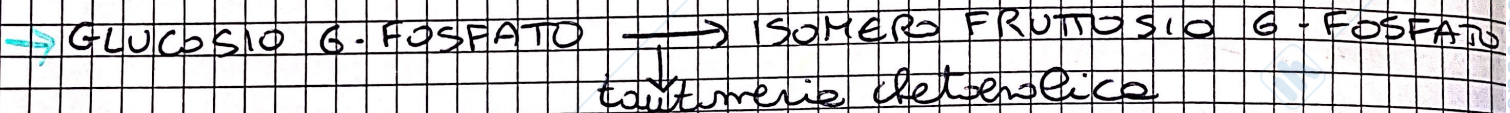
GLICOLISI



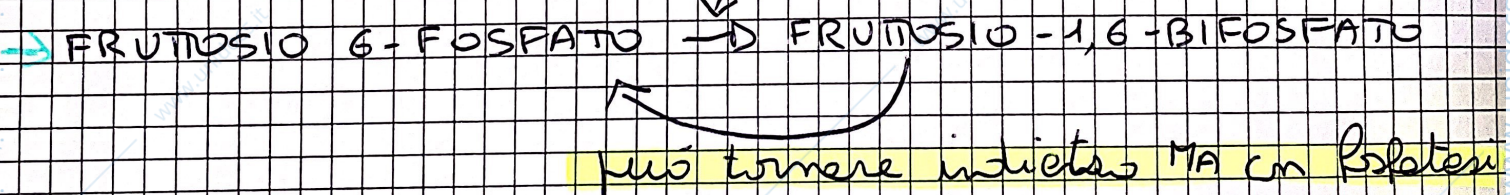
- 10 REAZIONI
- FASE DI INVESTIMENTO (1)
- FASE DI RECUPERO ENERGETICO (2)

(1) 5 REAZIONI:

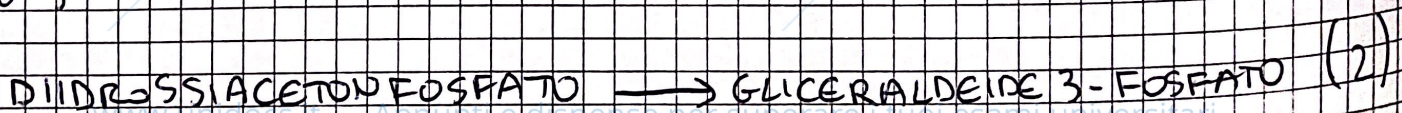
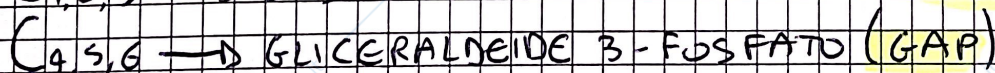
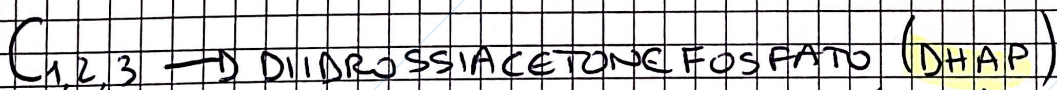
(1) reazione di fosforilazione del glucosio catalizzata dall'esochinasi (transferasi II), nel fegato glucocinasi o dopo un pasto ricco di carboidrati



REAZIONE CHIAVE: FOSFOFRUTTOCINASI 1 (PFK1)
↳ 1° reazione irreversibile della glicolisi

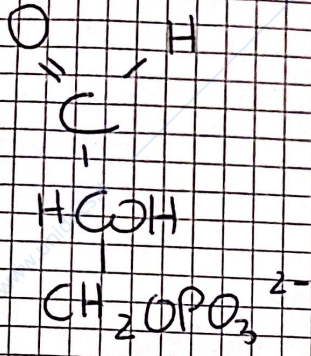


ALDOLASI (C₃, C₄)
↳ clasi

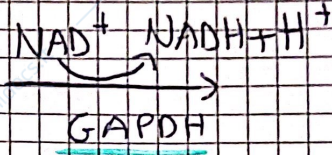
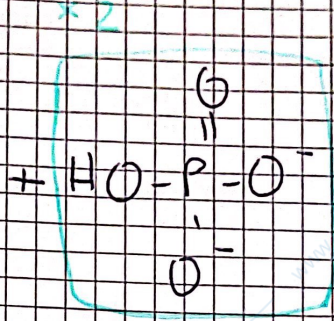


②

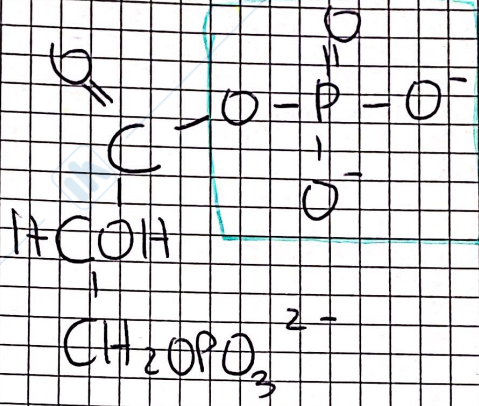
GLICERALDEIDE 3 FOSFATO DEIDROGENASI (GAPDH)



GAP



1° classe 1
OSSIDOREDUTASI



1,3 BIP - GLICERATO 1,3 BPG

2° enzima GAPDH → NAD⁺ + residuo R (CISTEINA)

S⁻ reagisce con GAP
↓
TIOEMIACTALICO

si ossida
grazie al NAD⁺

- perde protoni e⁻

- si forma NADH + H⁺ + INTERMEDIO TIOESTERICO (re B200)