

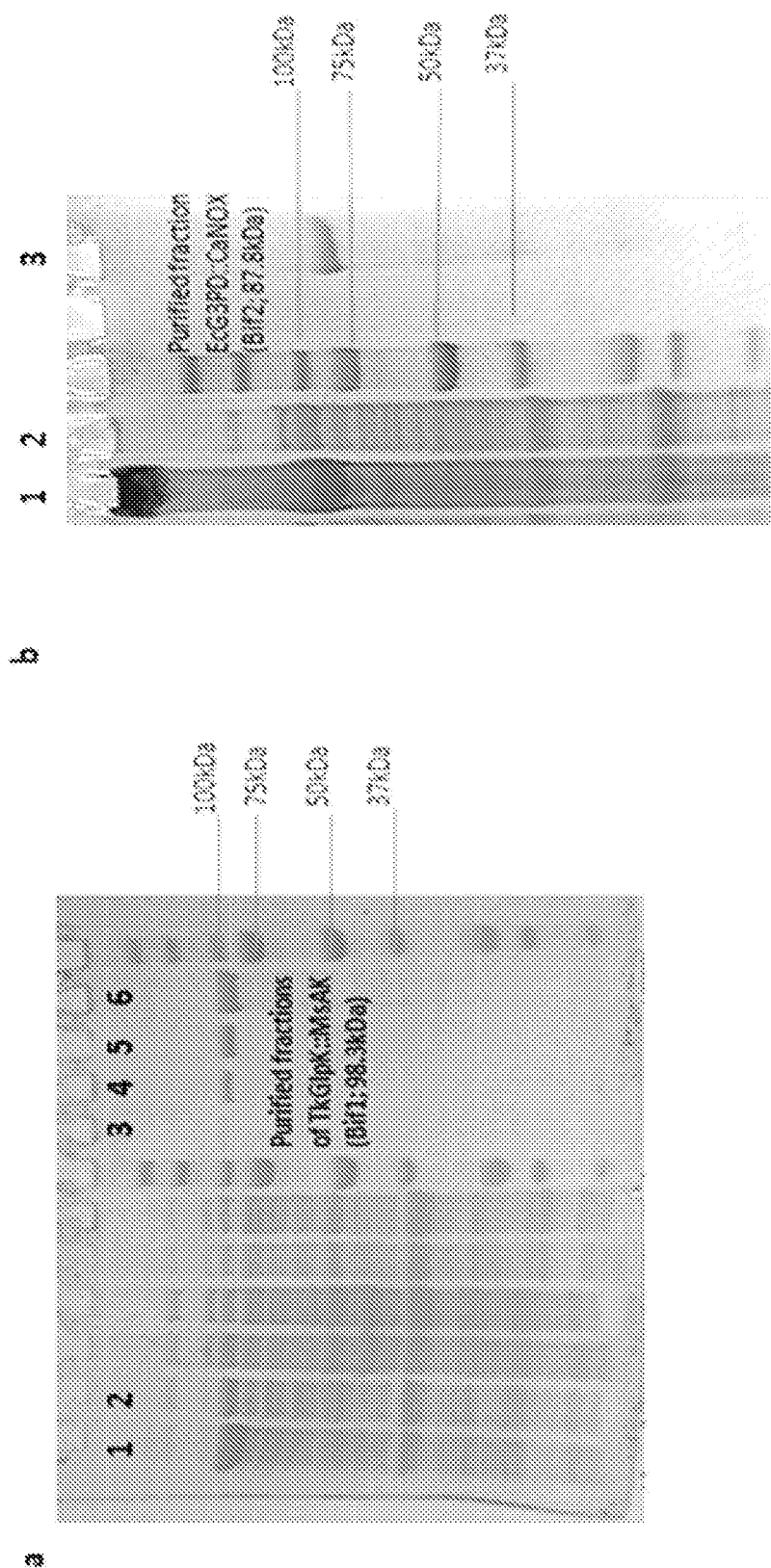
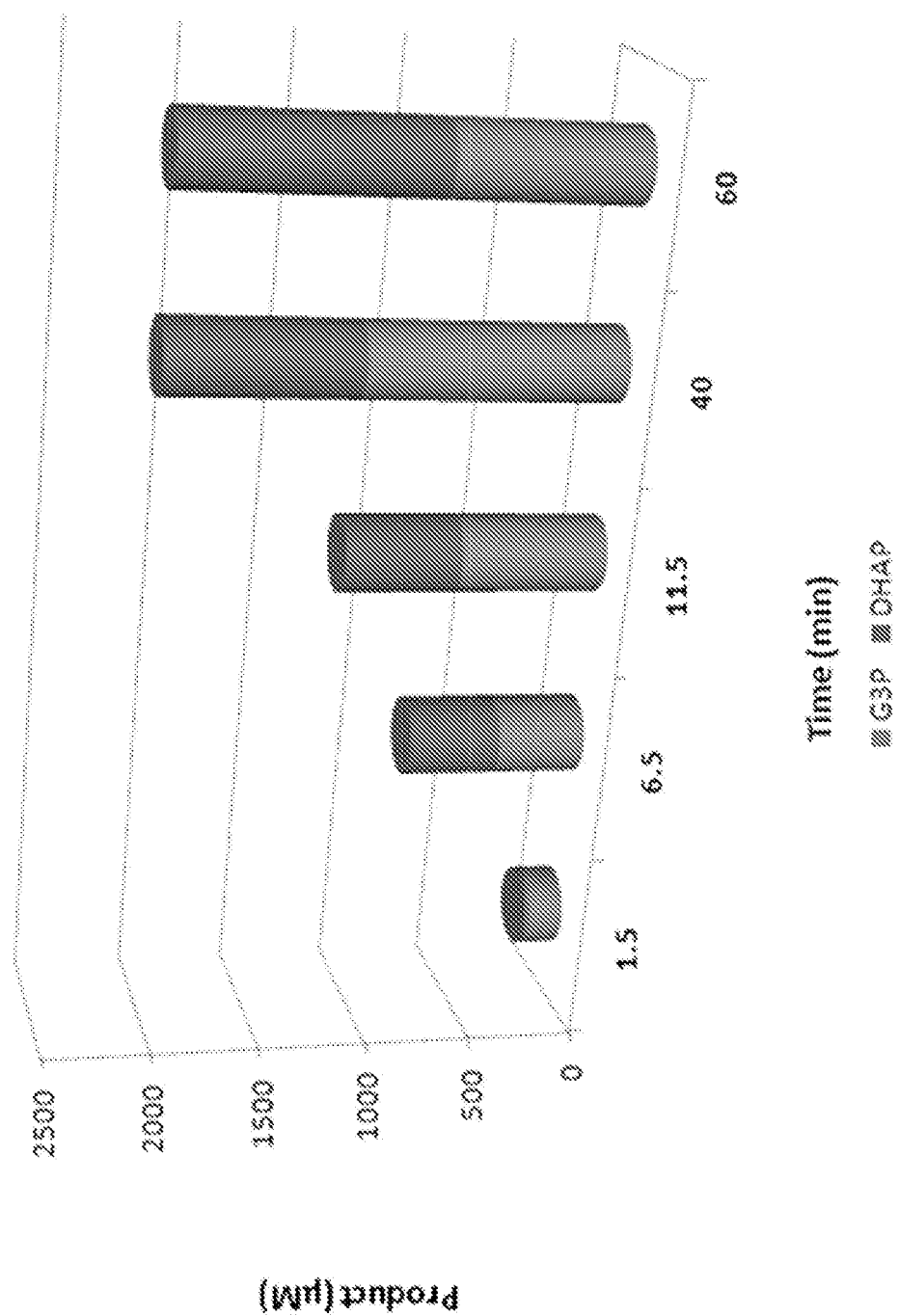
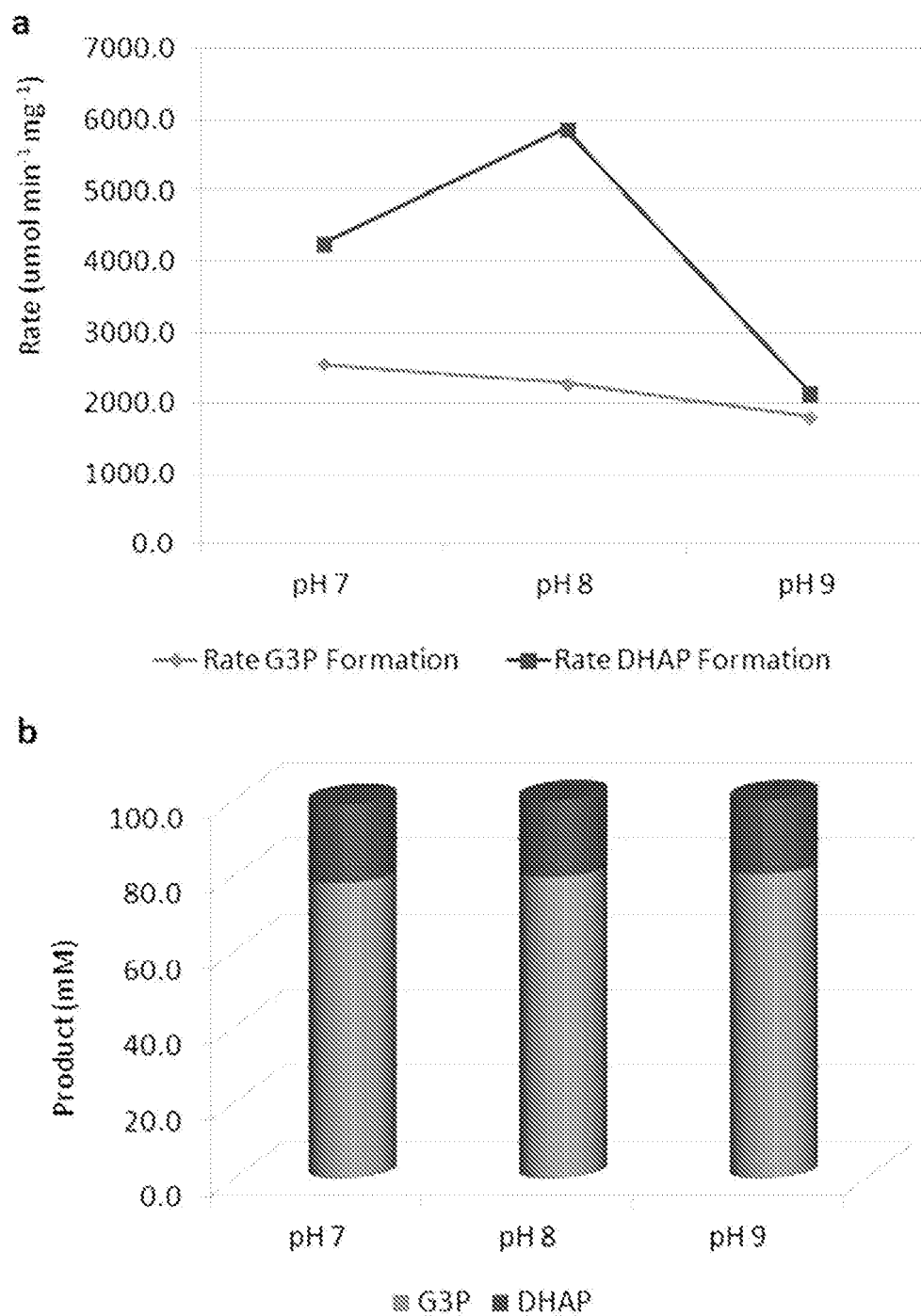


FIGURE 1

**FIGURE 2**

**FIGURE 3**

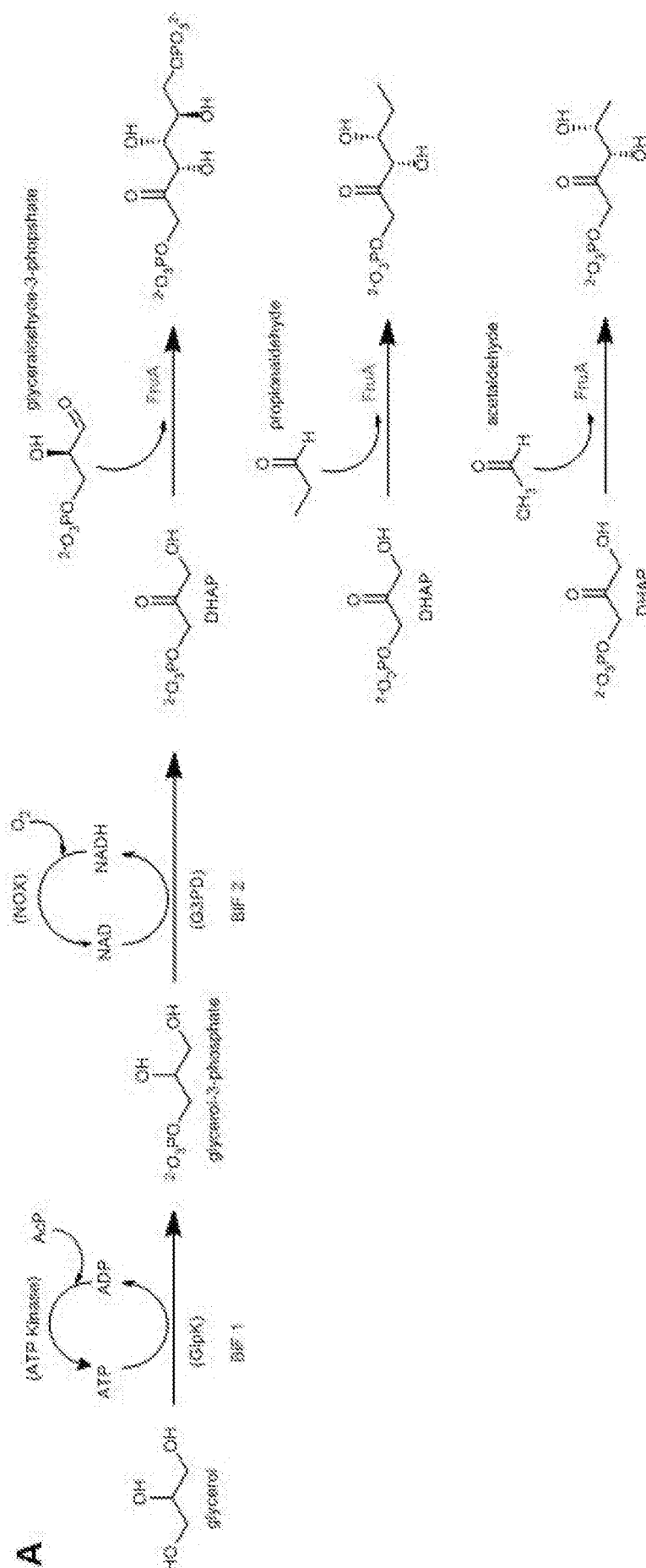


FIGURE 4-1

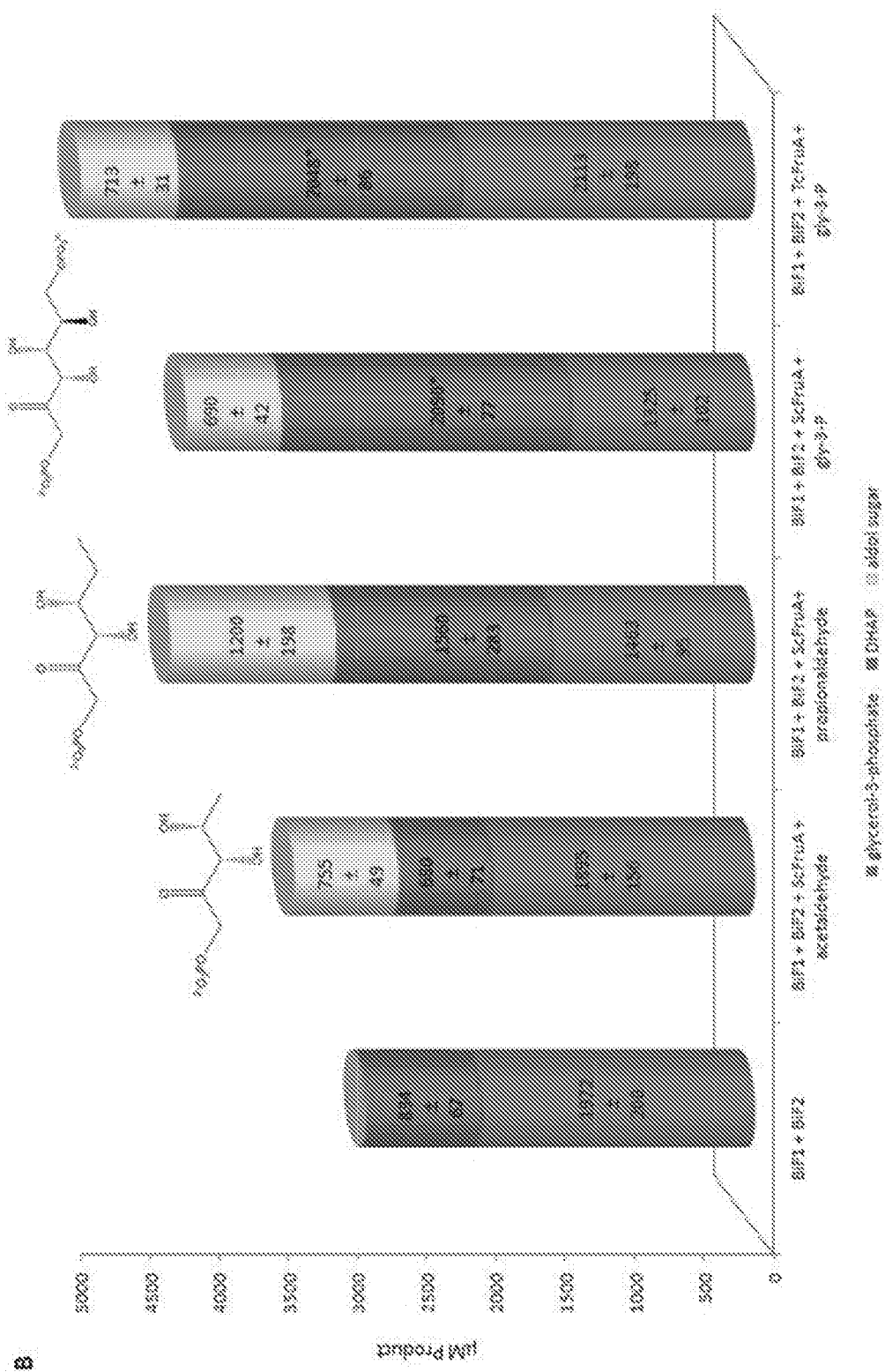


FIGURE 4-2

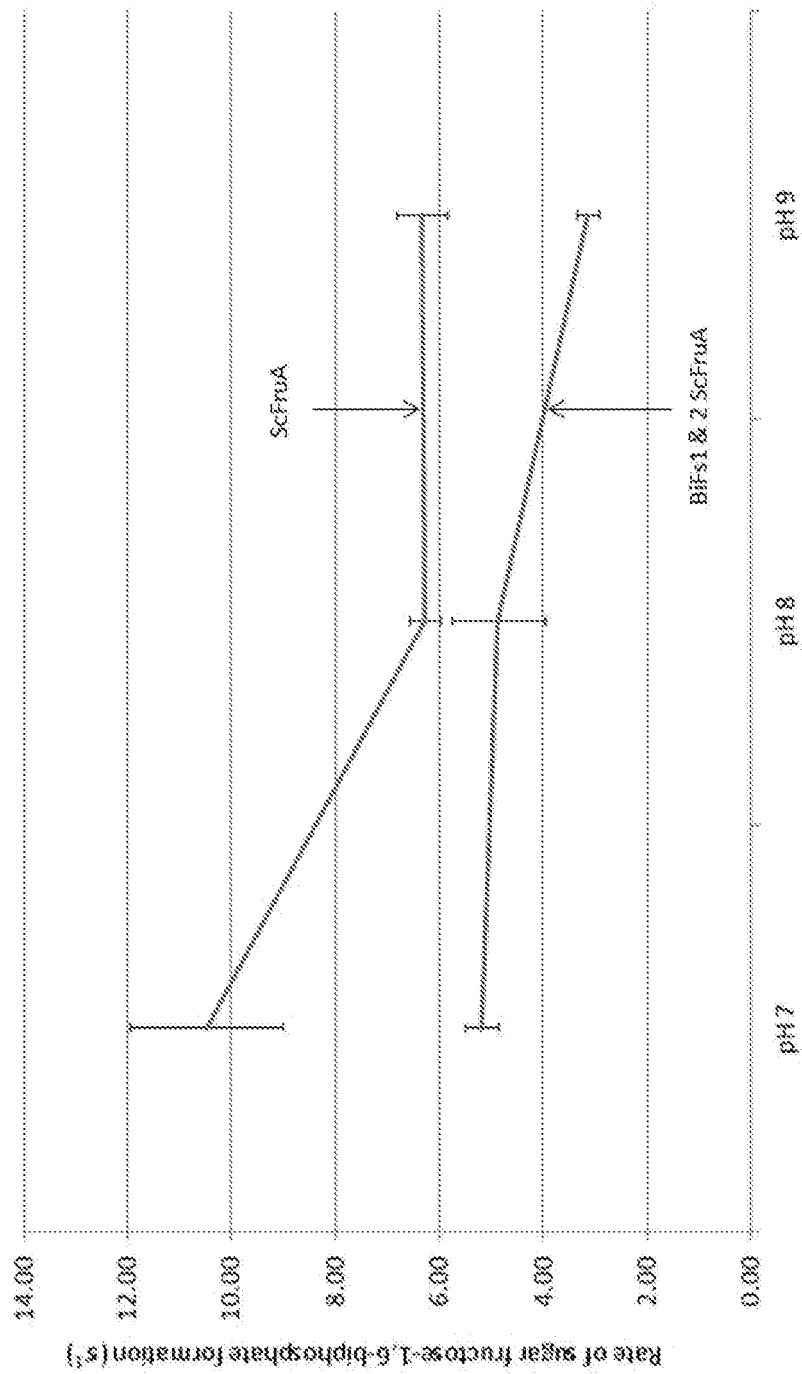


FIGURE 5

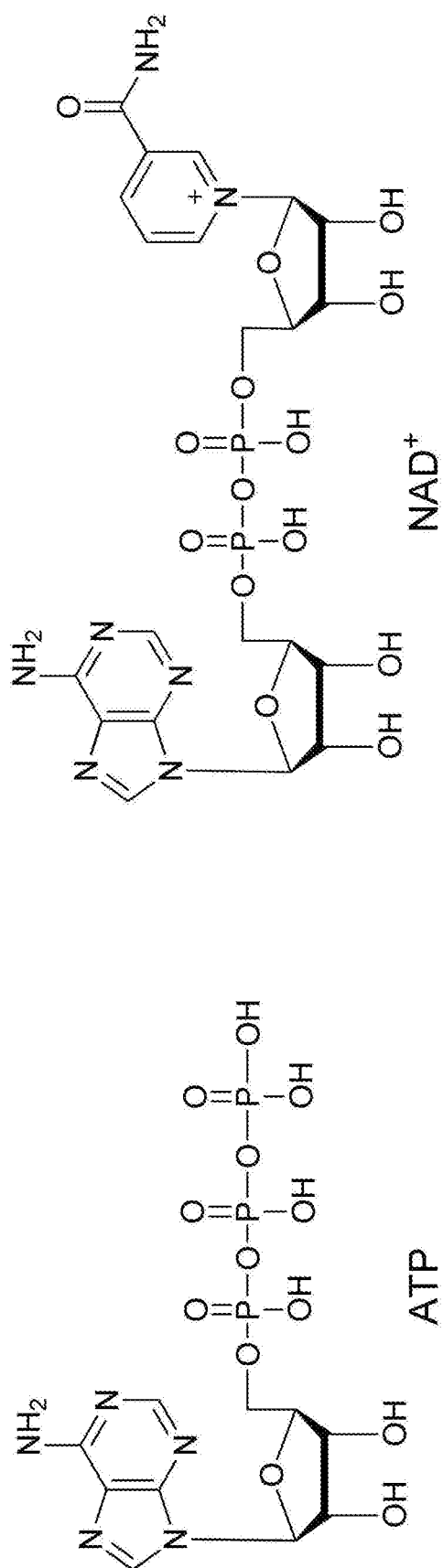
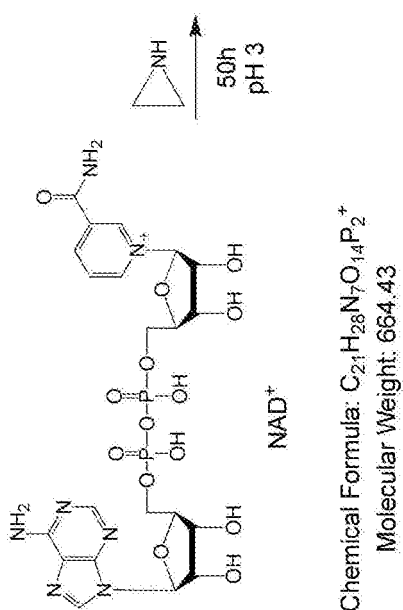
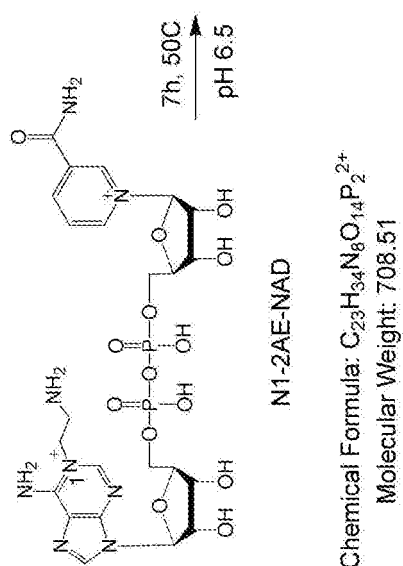
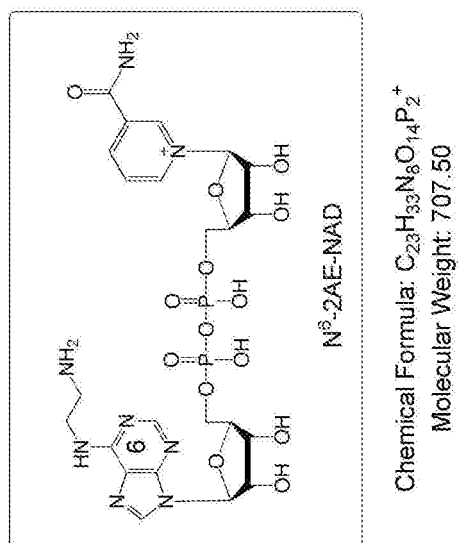


FIGURE 6

**FIGURE 7**

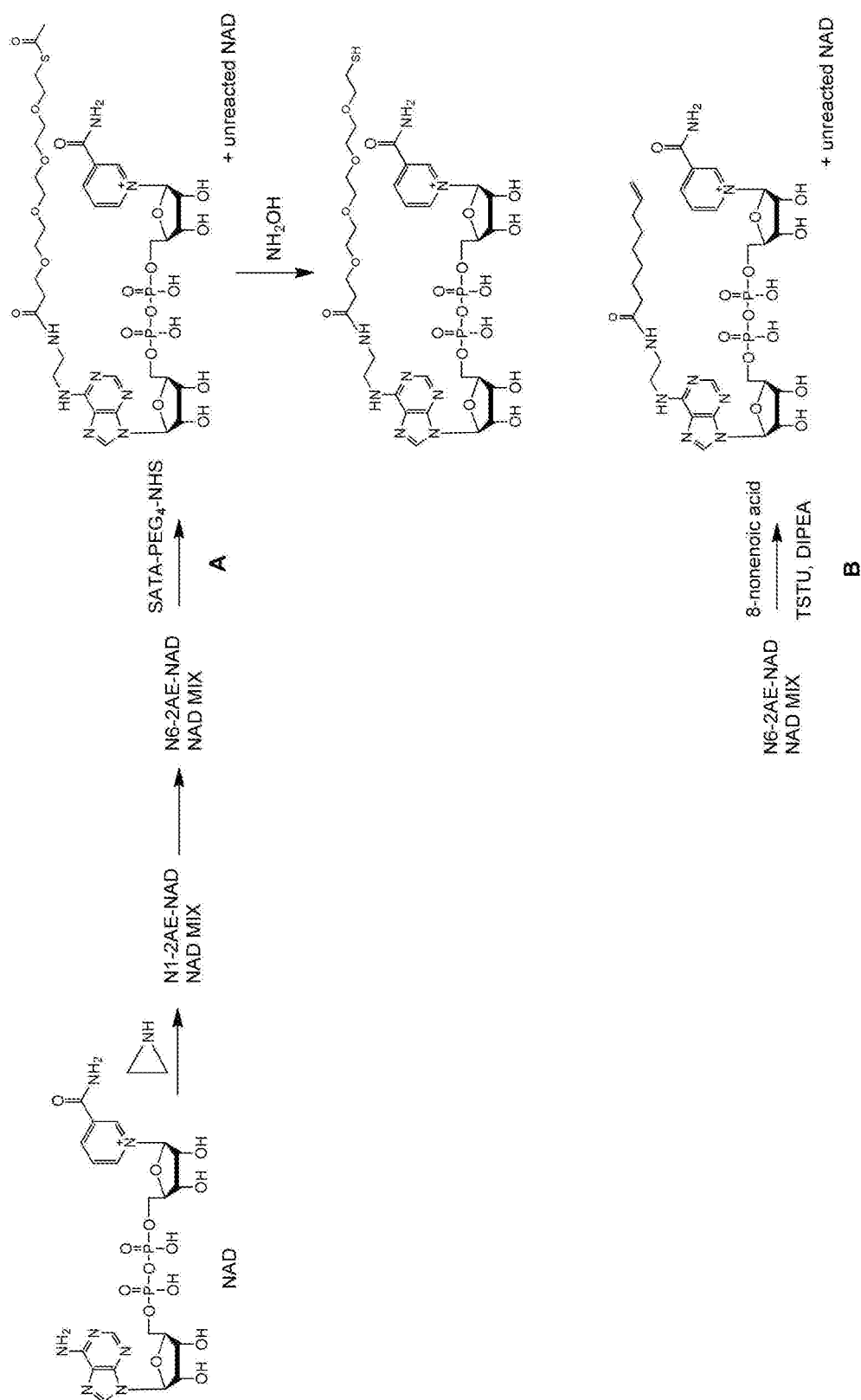
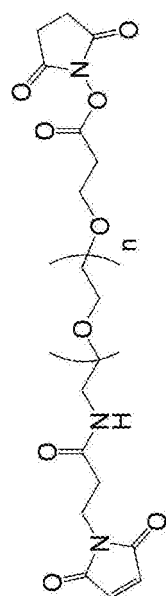
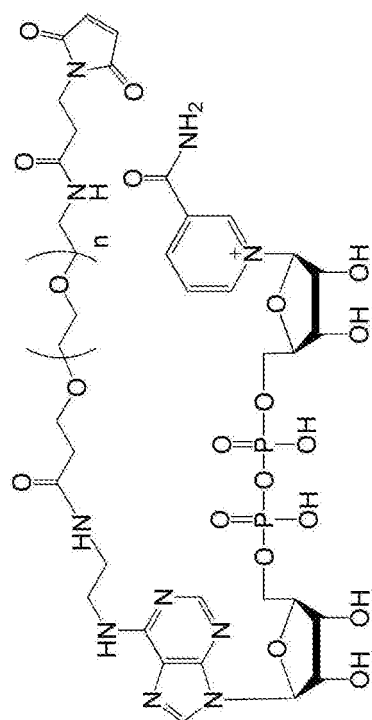


FIGURE 8



N6-2AE-NAD + NAD mix



FIGURE 9

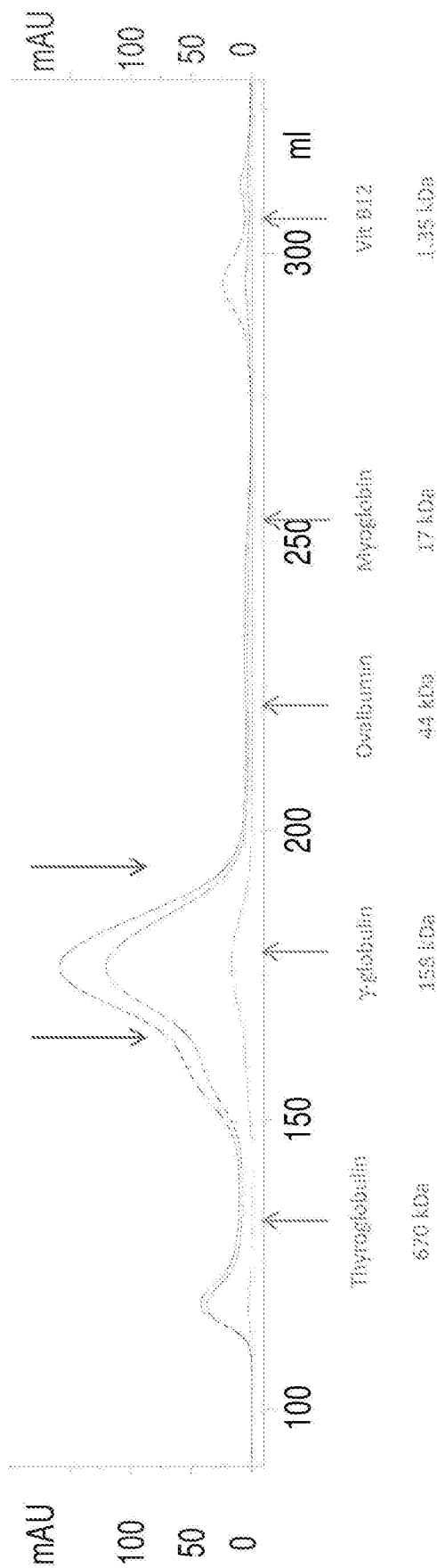


FIGURE 10

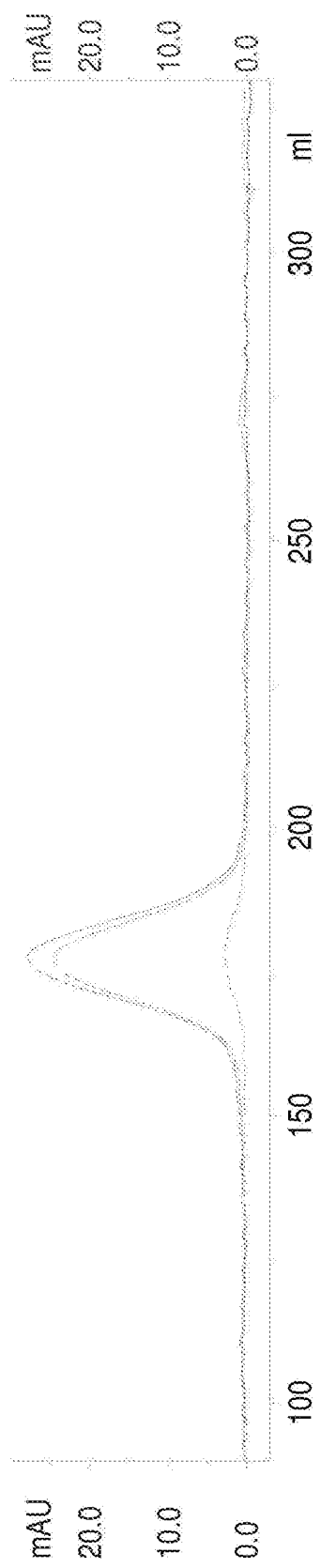


FIGURE 11

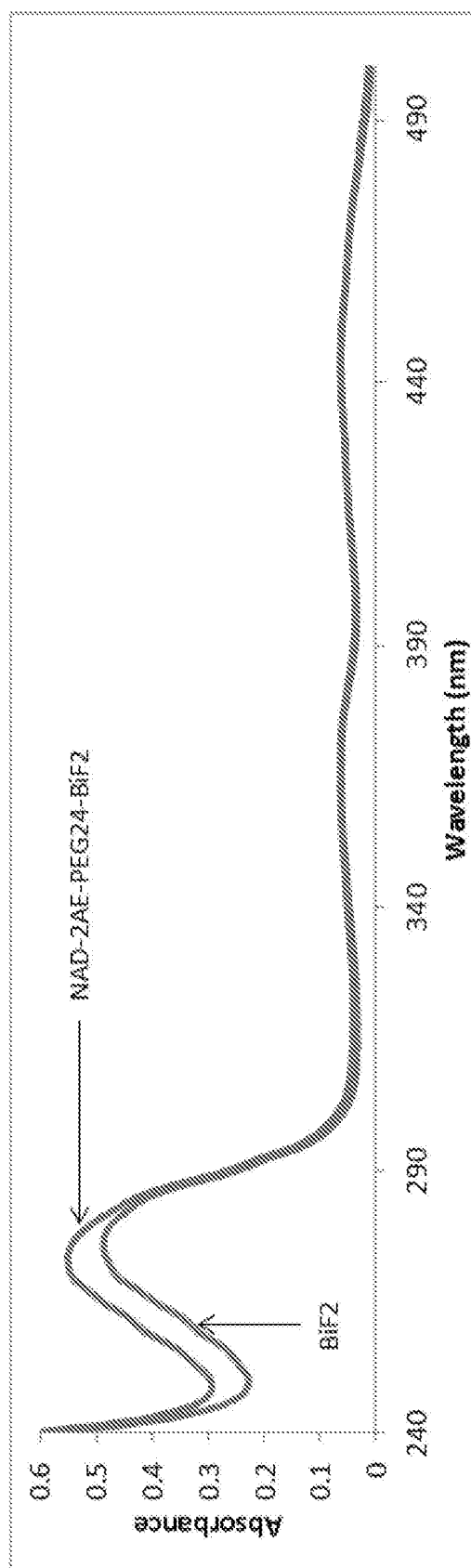
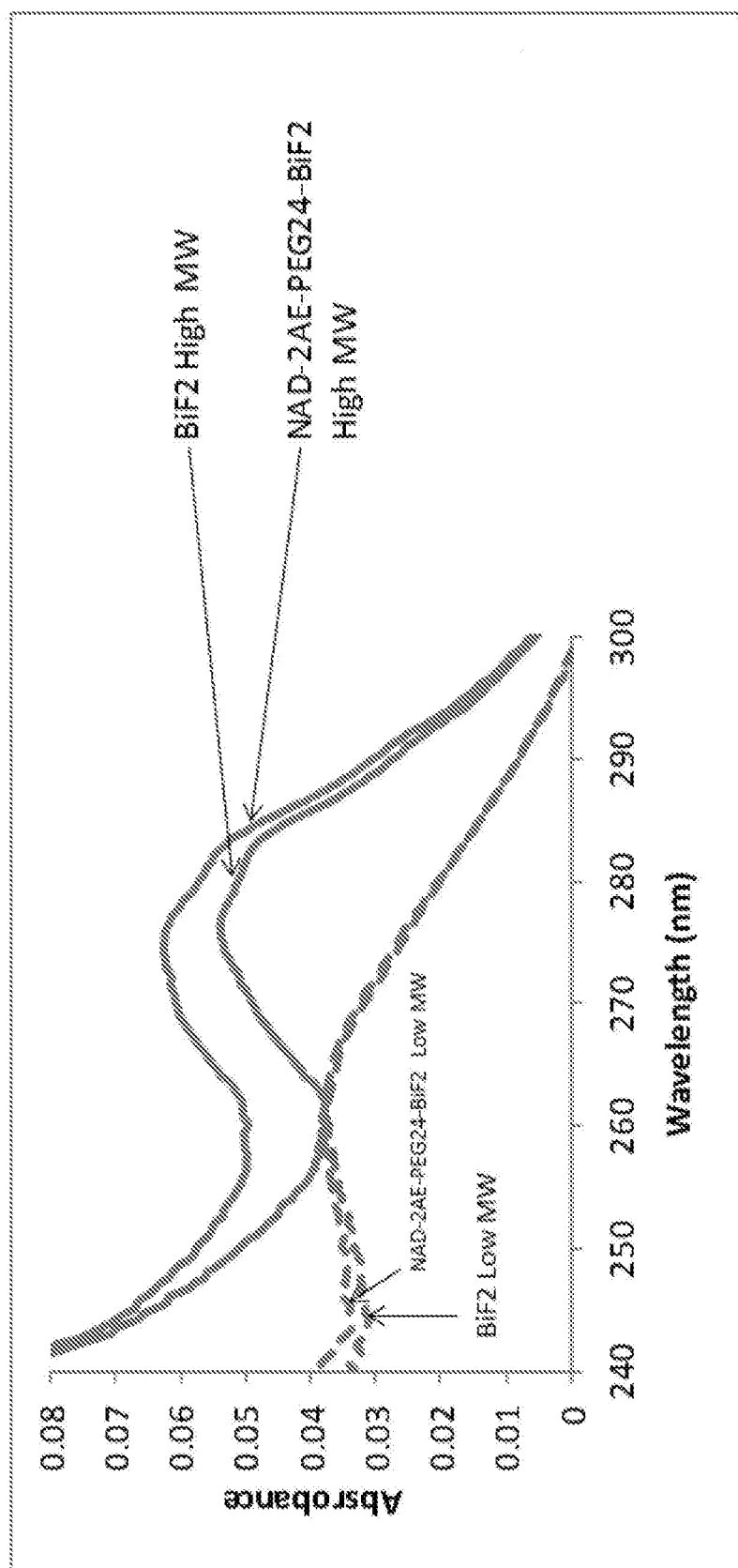
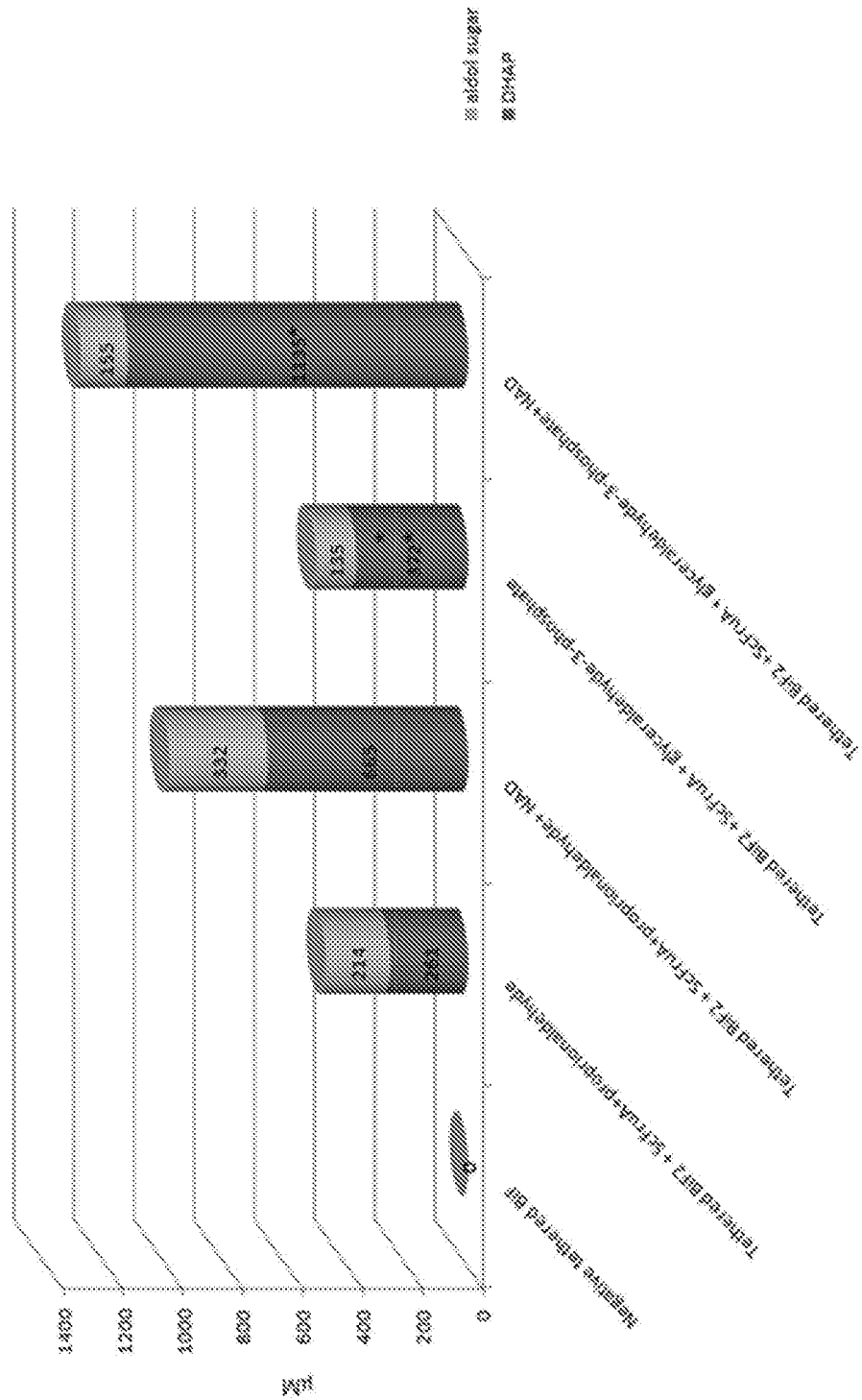


FIGURE 12

**FIGURE 13**



* estimation based on subtraction of known amount of glyceraldehyde-3-P

FIGURE 14

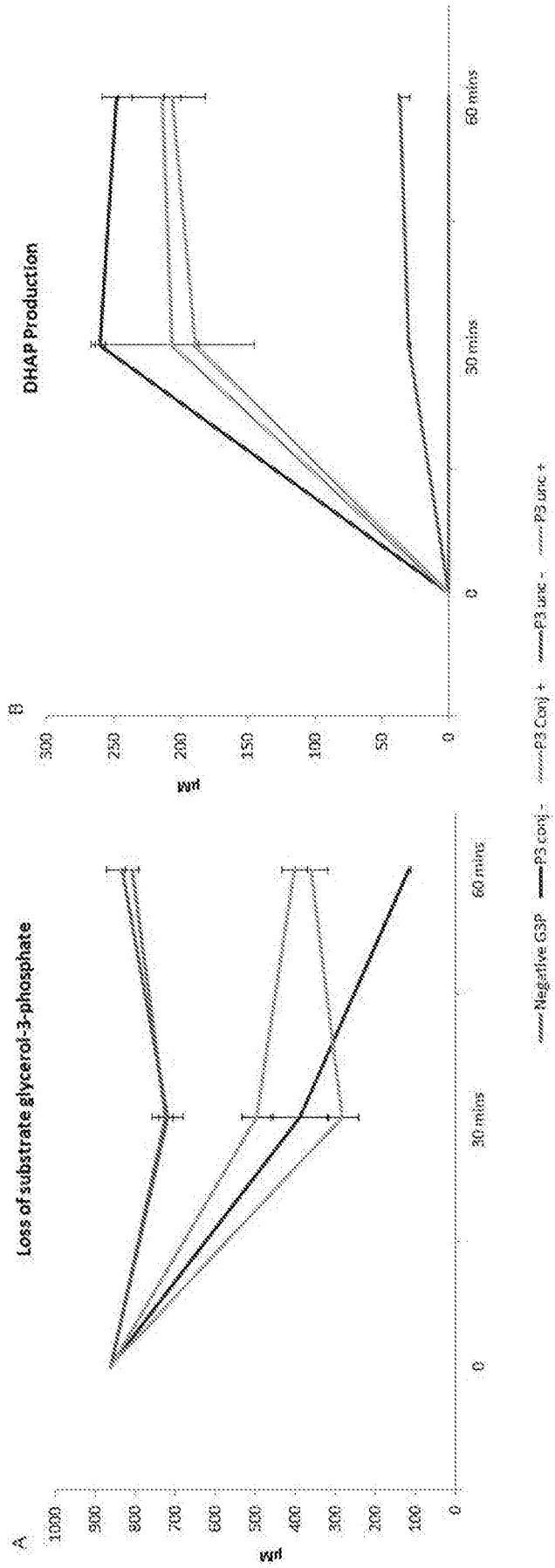


FIGURE 15

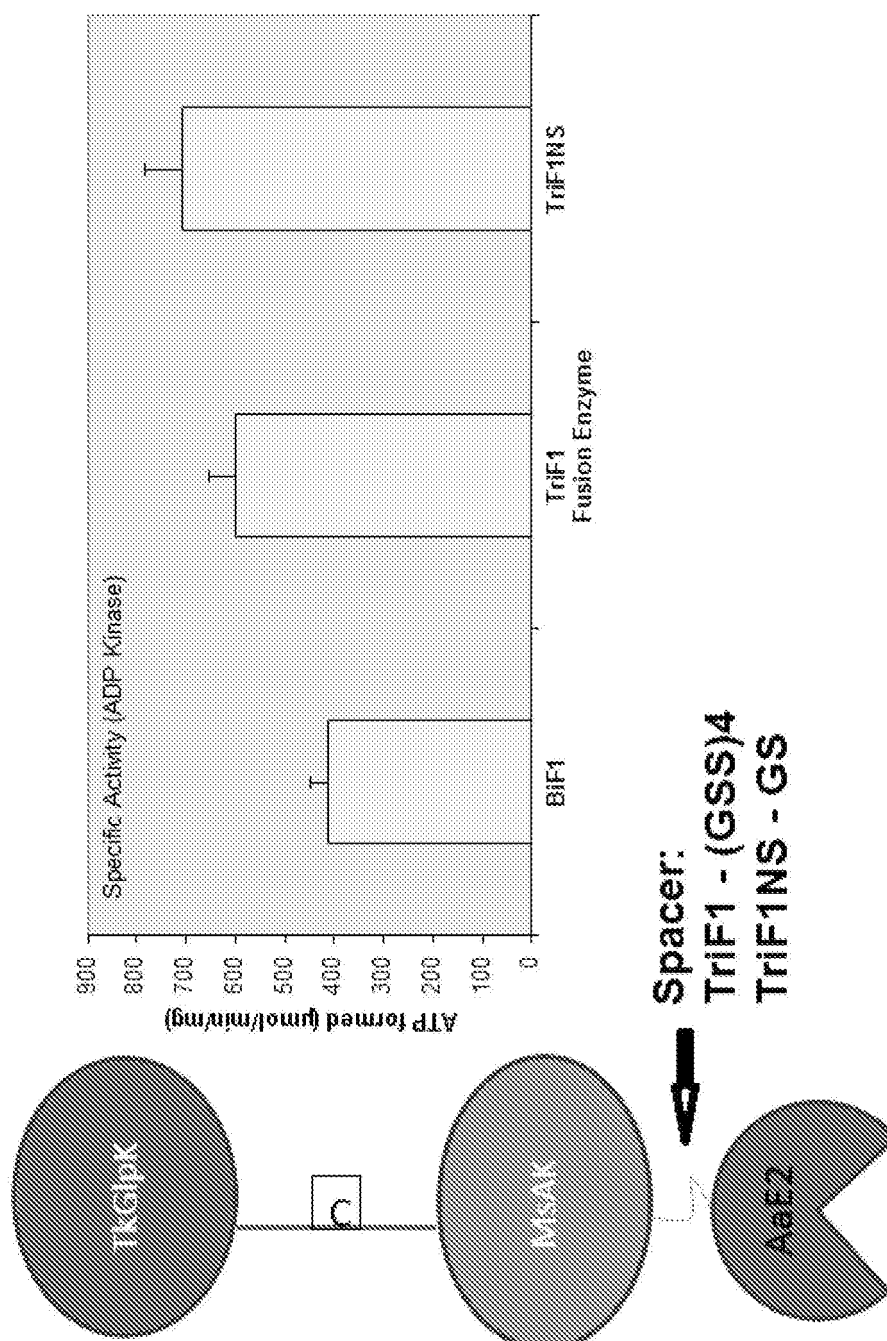


FIGURE 16

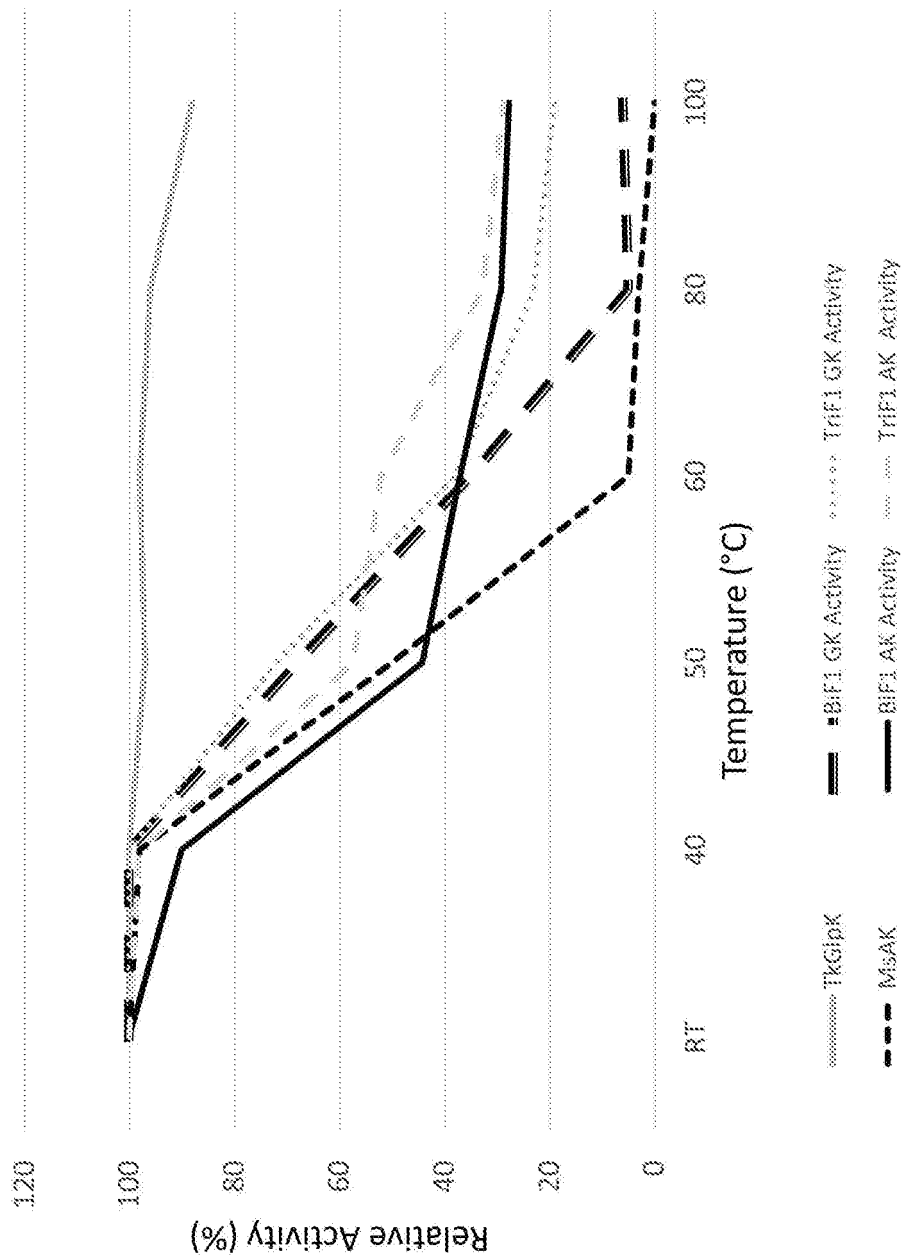
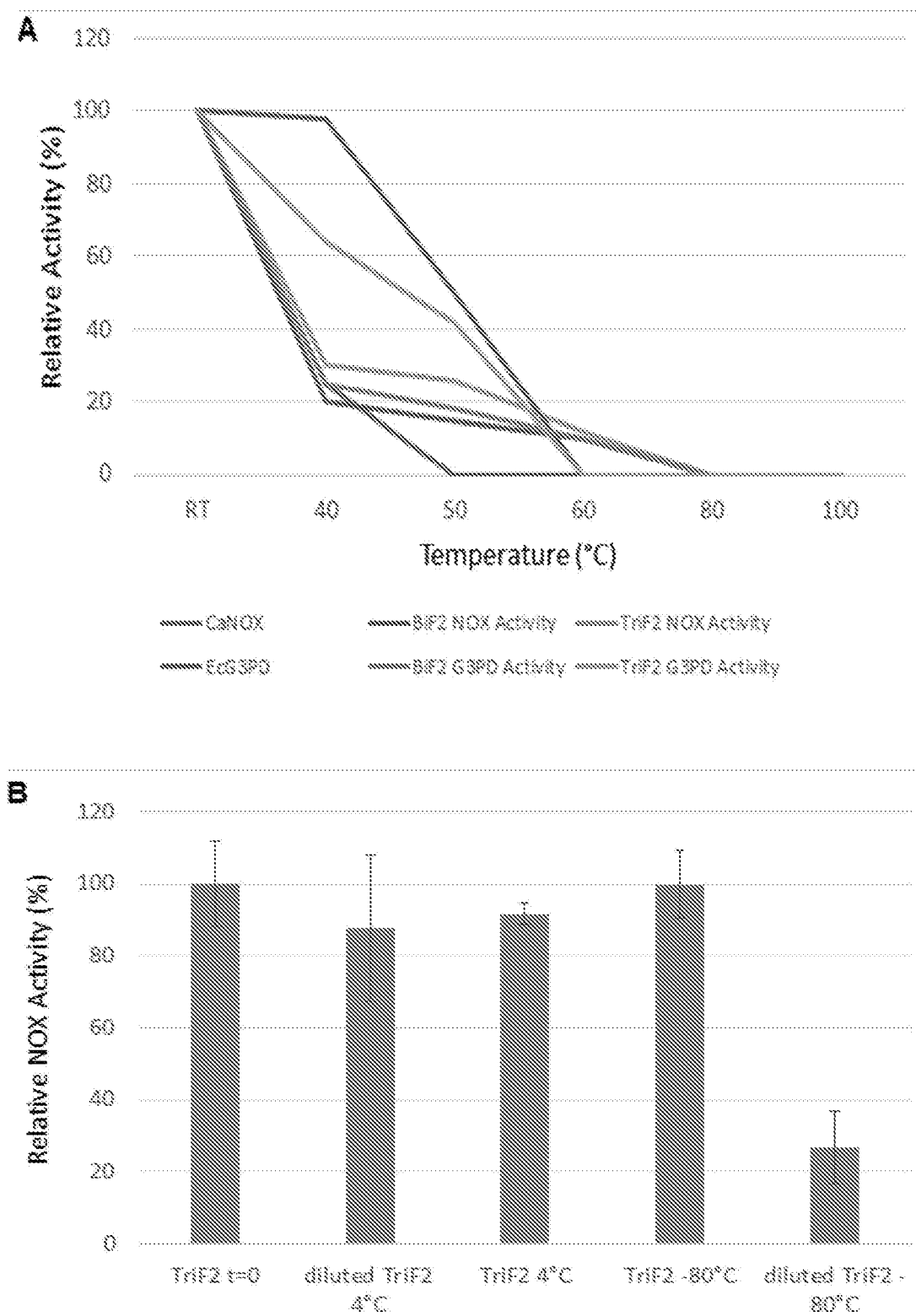


FIGURE 17

**FIGURE 18**

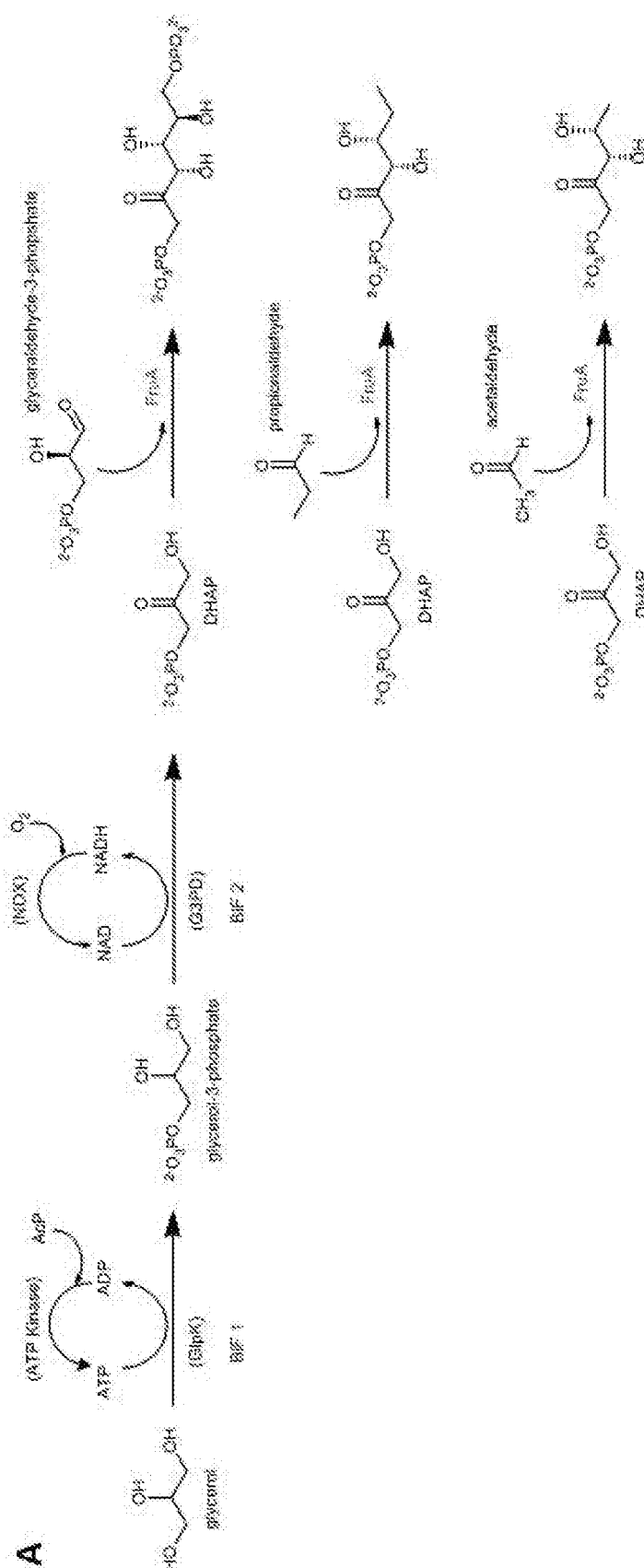


FIGURE 19-1

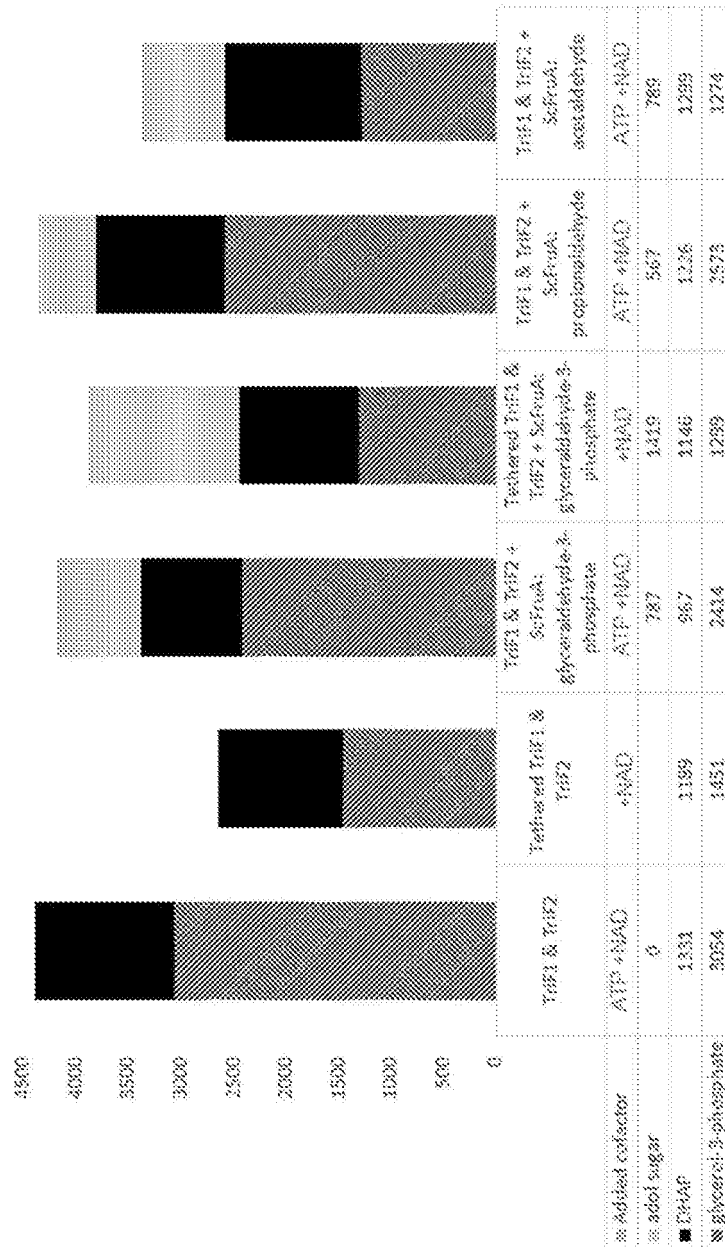
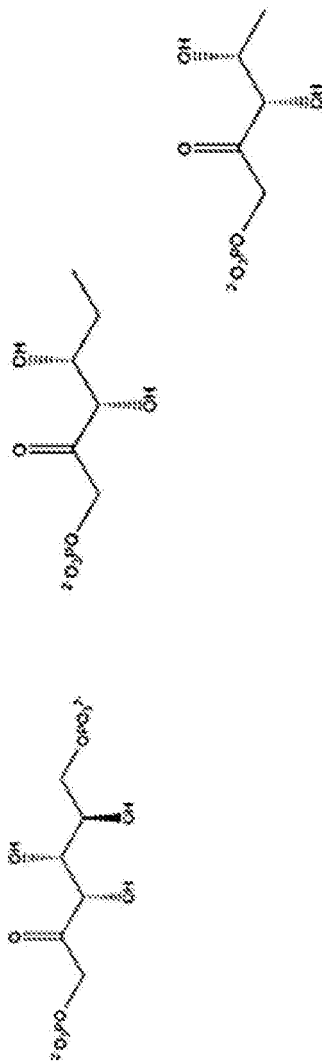


FIGURE 19-2

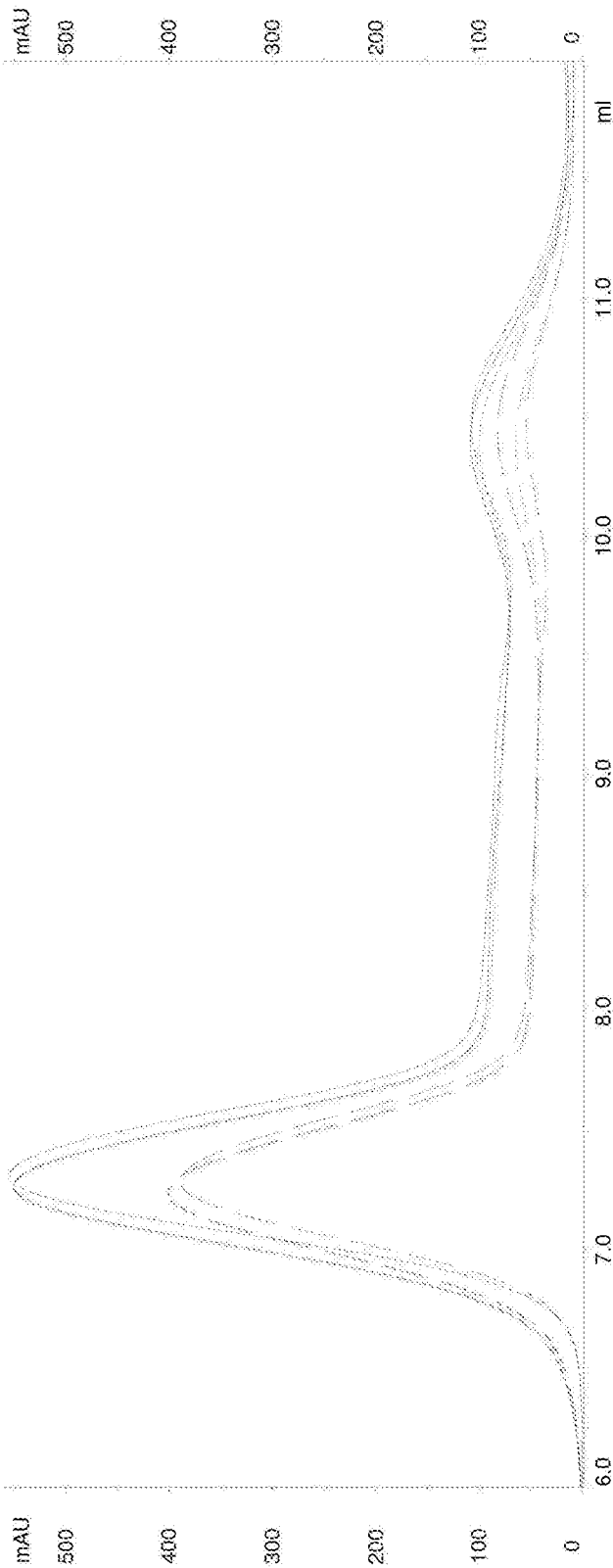


FIGURE 20

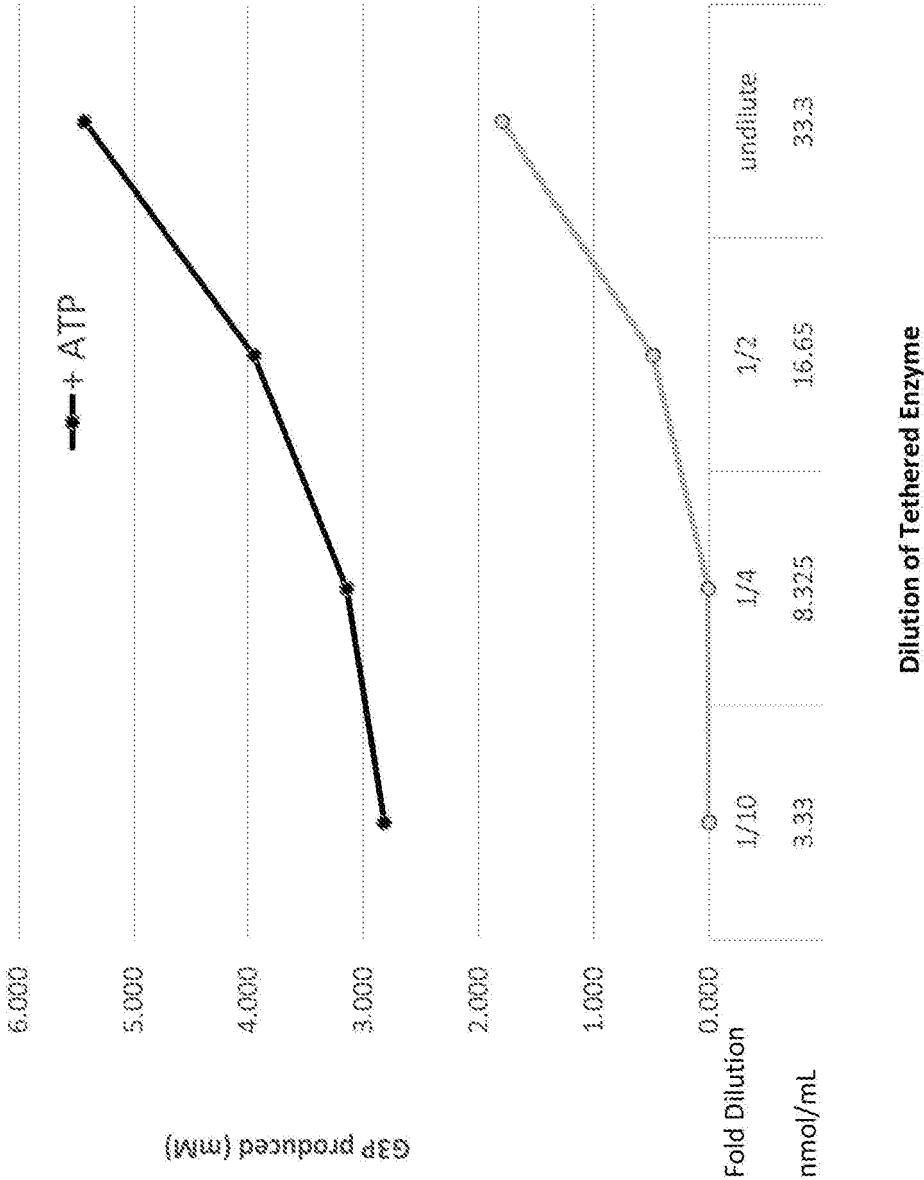
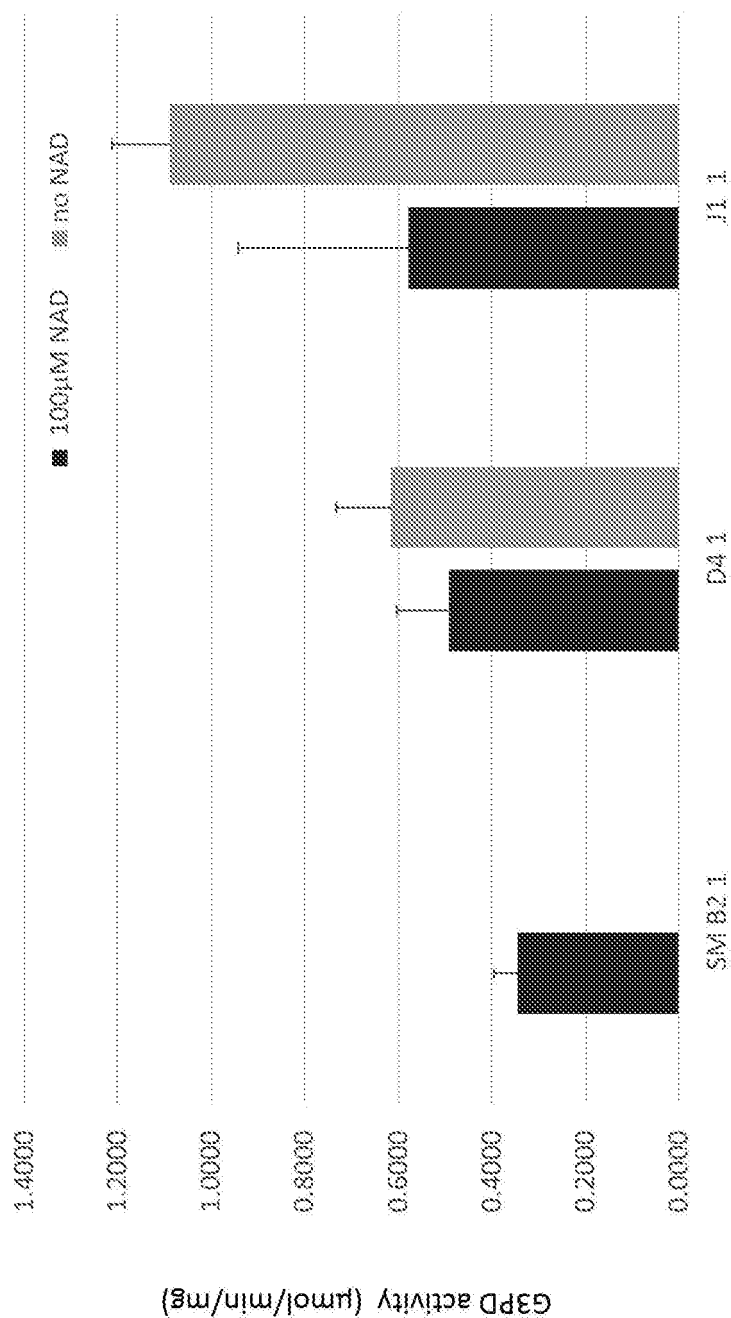


FIGURE 21

**FIGURE 22**

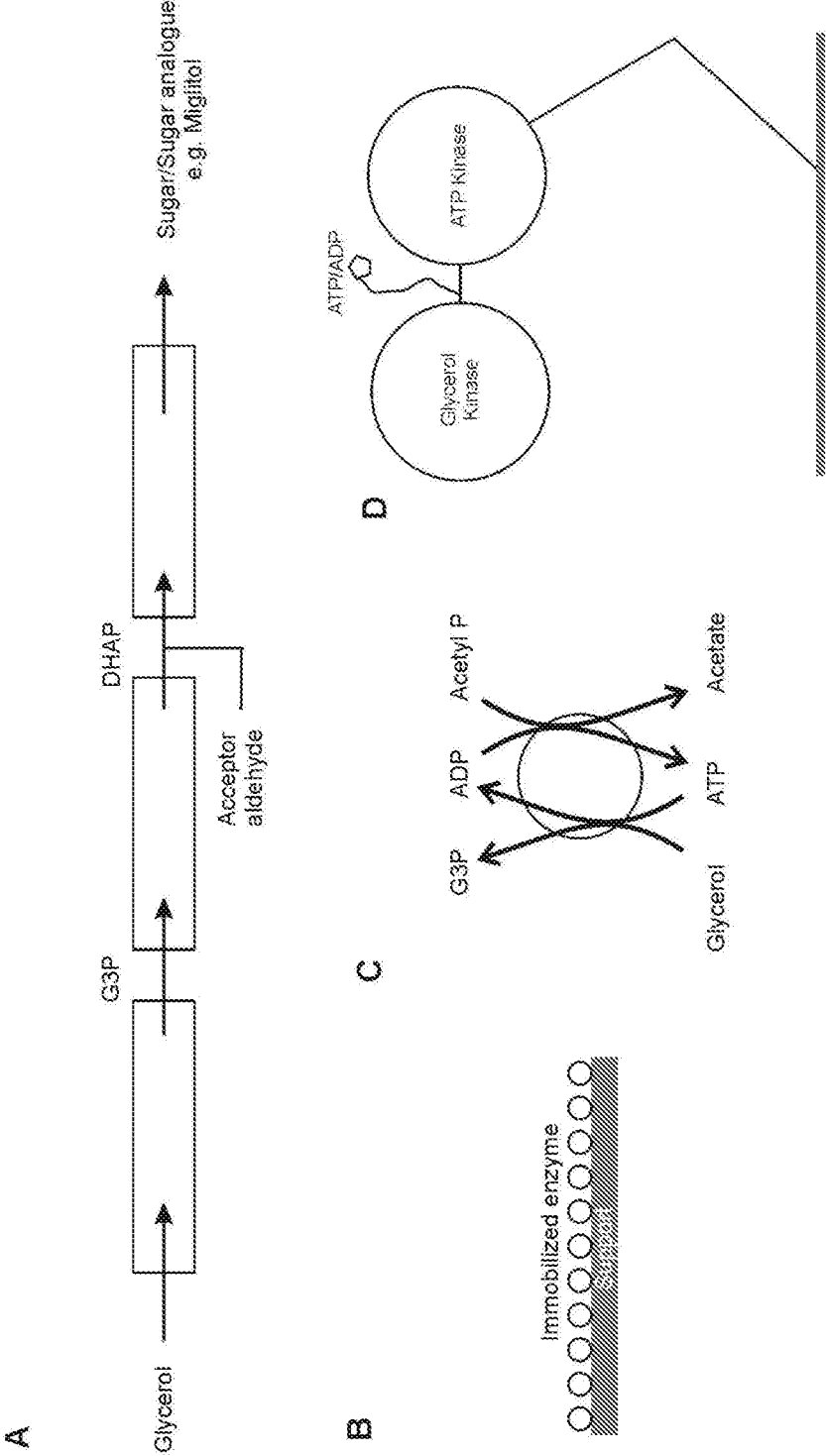
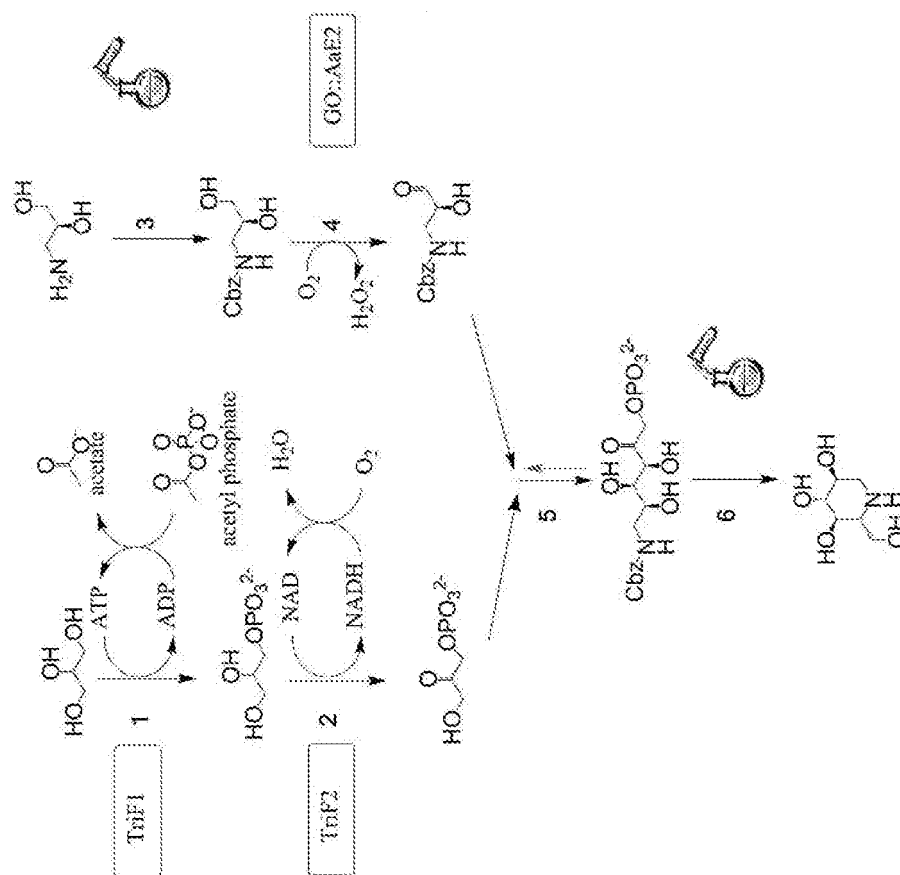


FIGURE 23-1

E

 Chemically-catalysed reaction step

- 1 - TriF1 (GlpK_{TC}-AceK_{MS}-E2_{aa}), pH 8.0
- 2 - TriF2 (GpsA_{EC}-Nox_{CS}-E2_{aa}), pH 8.0
- 4 - galactose oxidase-esterase fusion GO_{M3.5}::E2_{aa}, pH 7.0
- 5 - aldolase-esterase fusion (FruA_{SC}::E2_{aa}, pH 7.0
- 6 - (benzyloxy)acetaldehyde; phosphatase; H₂, Pd

*Trif = Trienzymatic Fusion protein

FIGURE 23-2

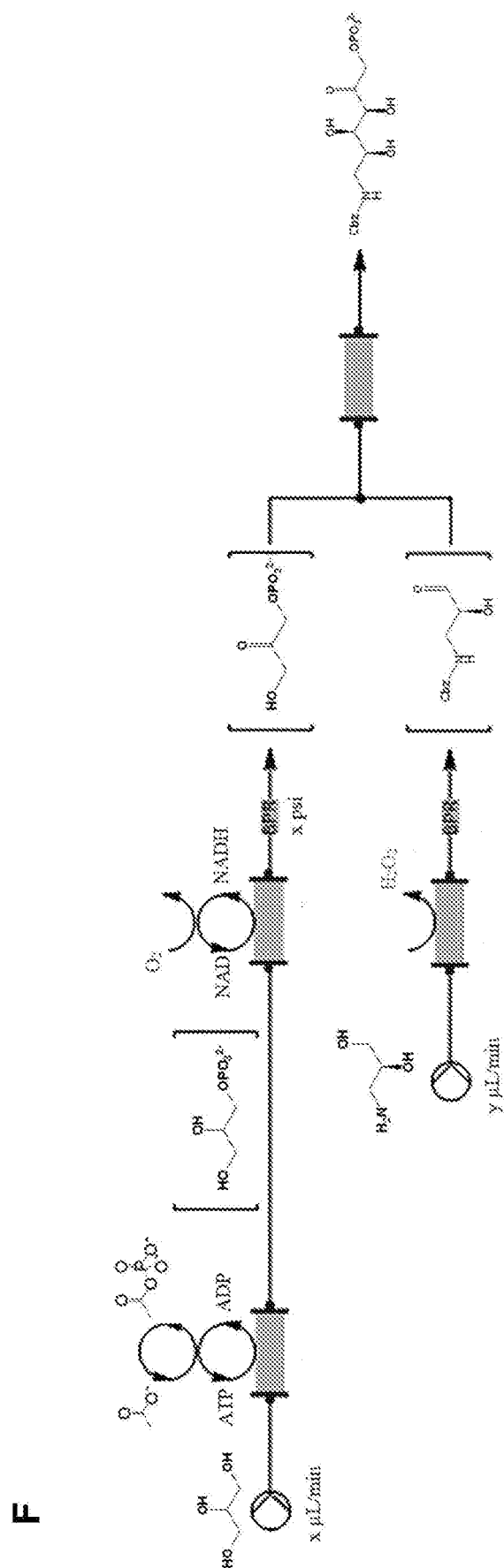


FIGURE 23-3

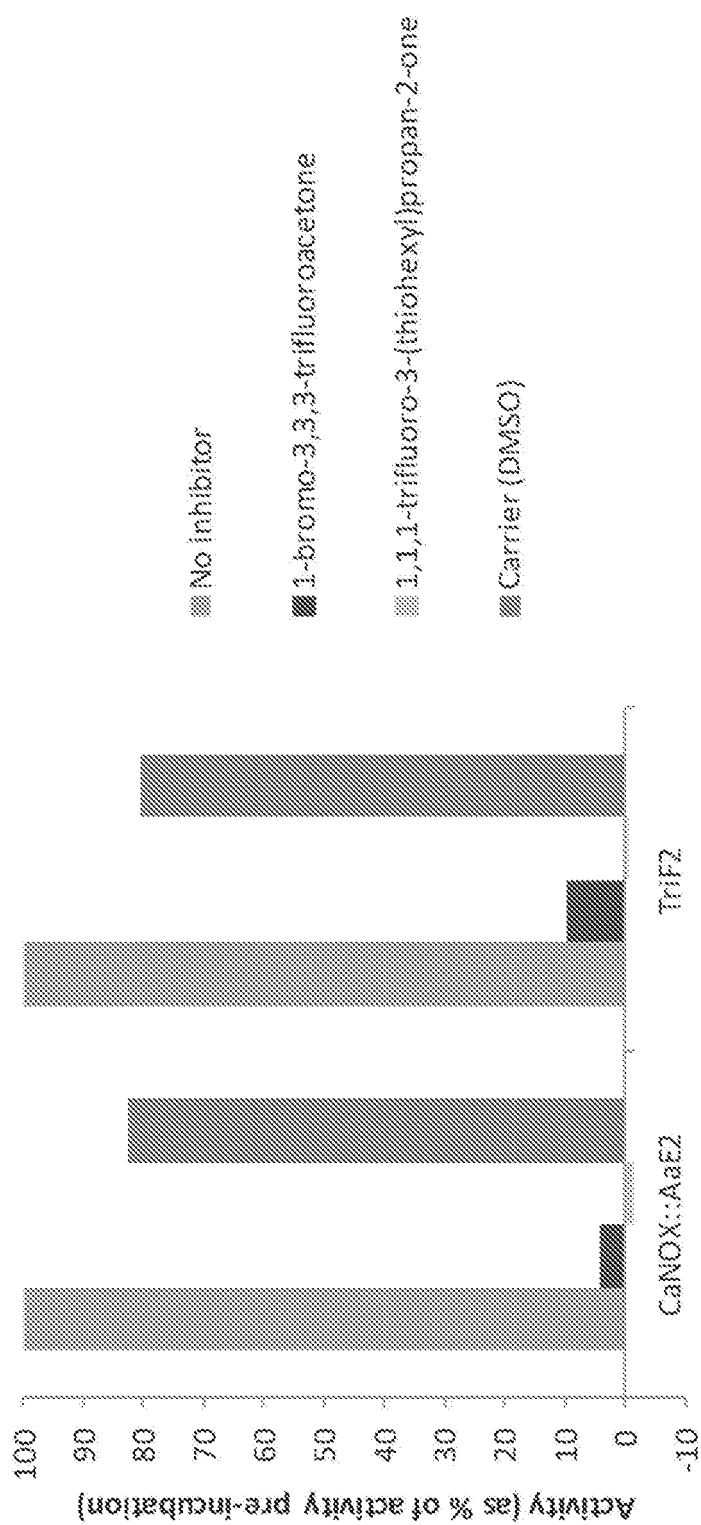
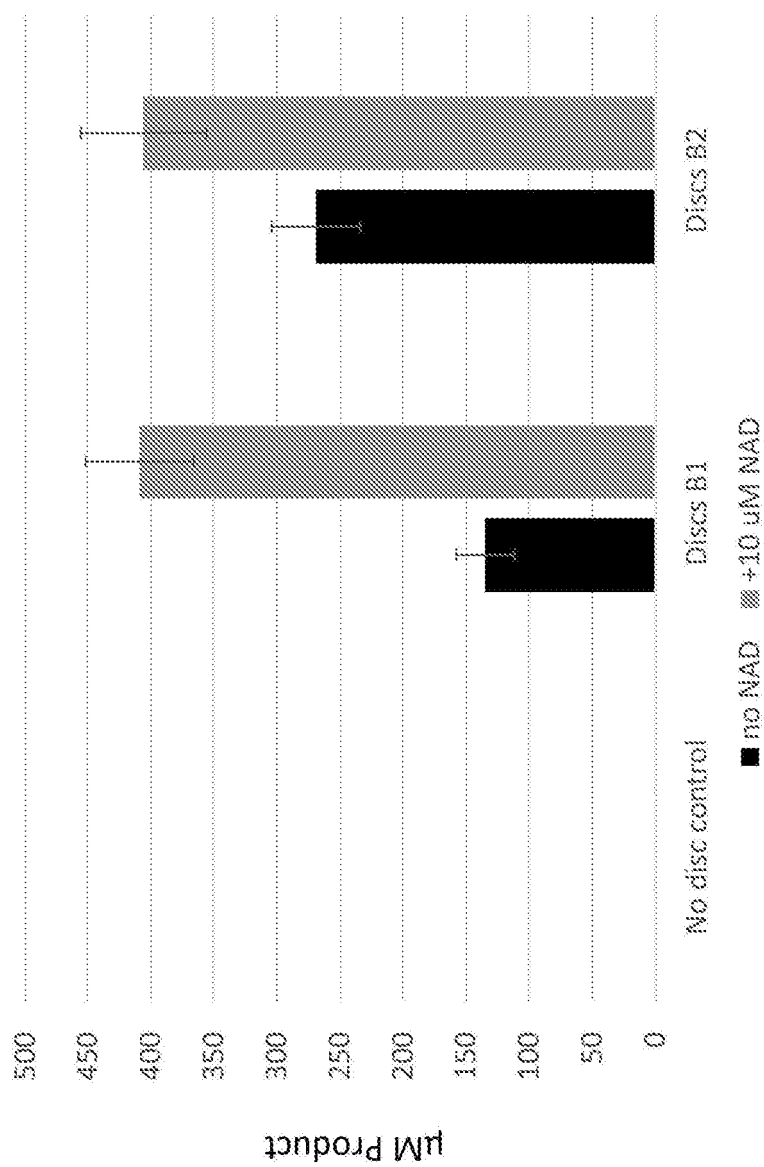


FIGURE 24

**FIGURE 25**

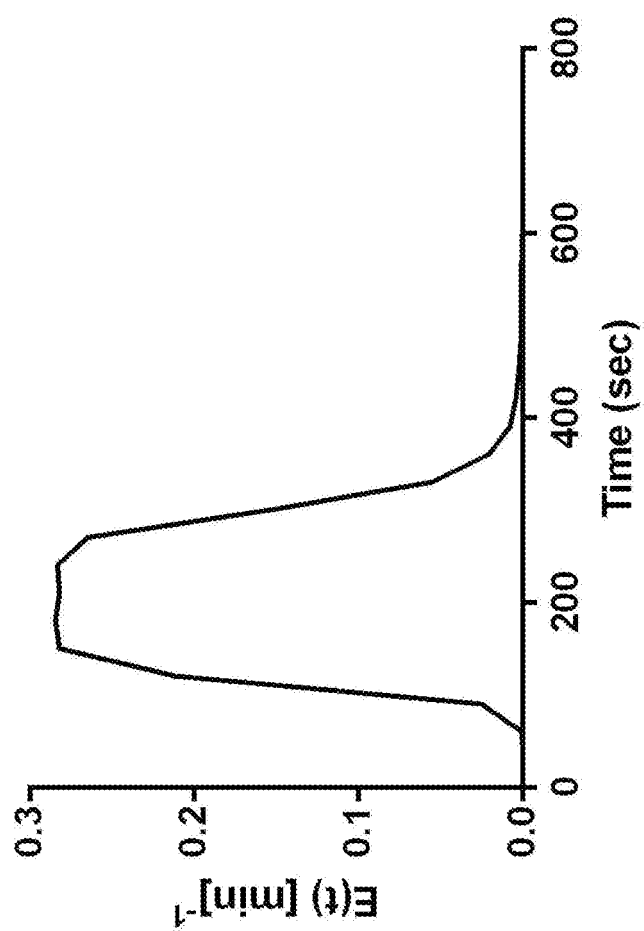
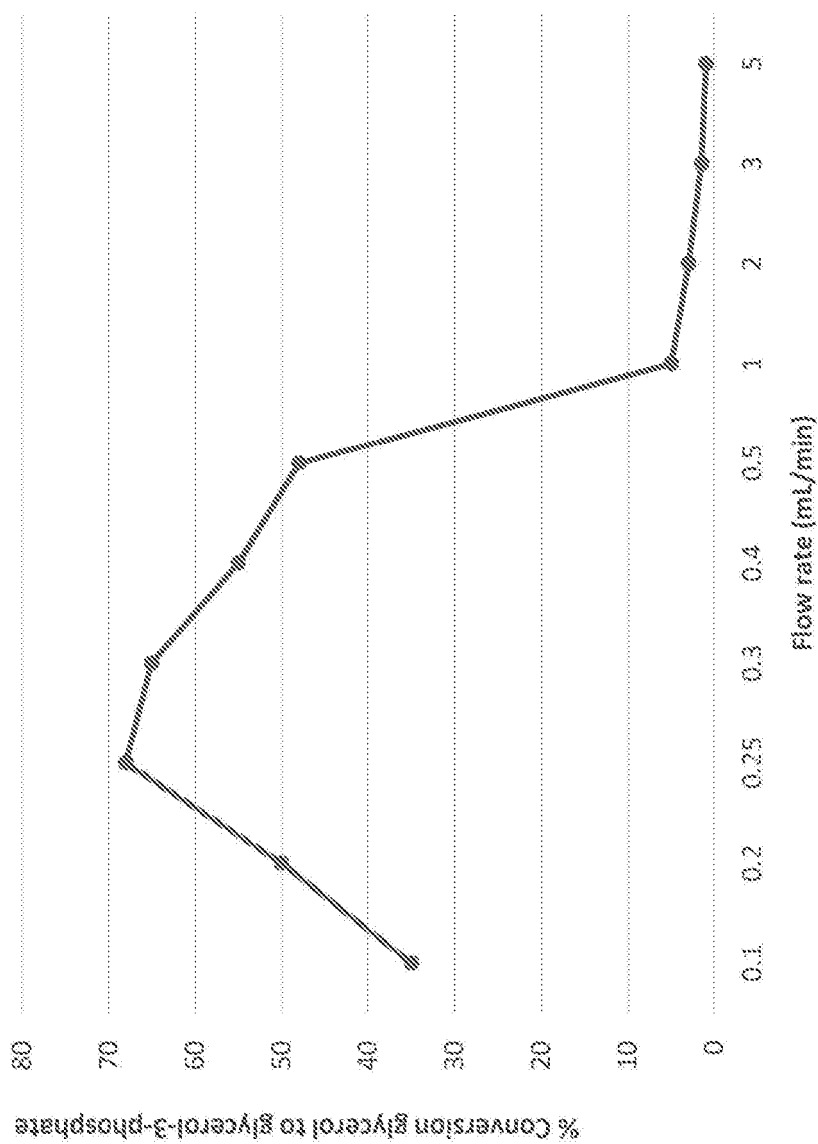


FIGURE 26

**FIGURE 27**

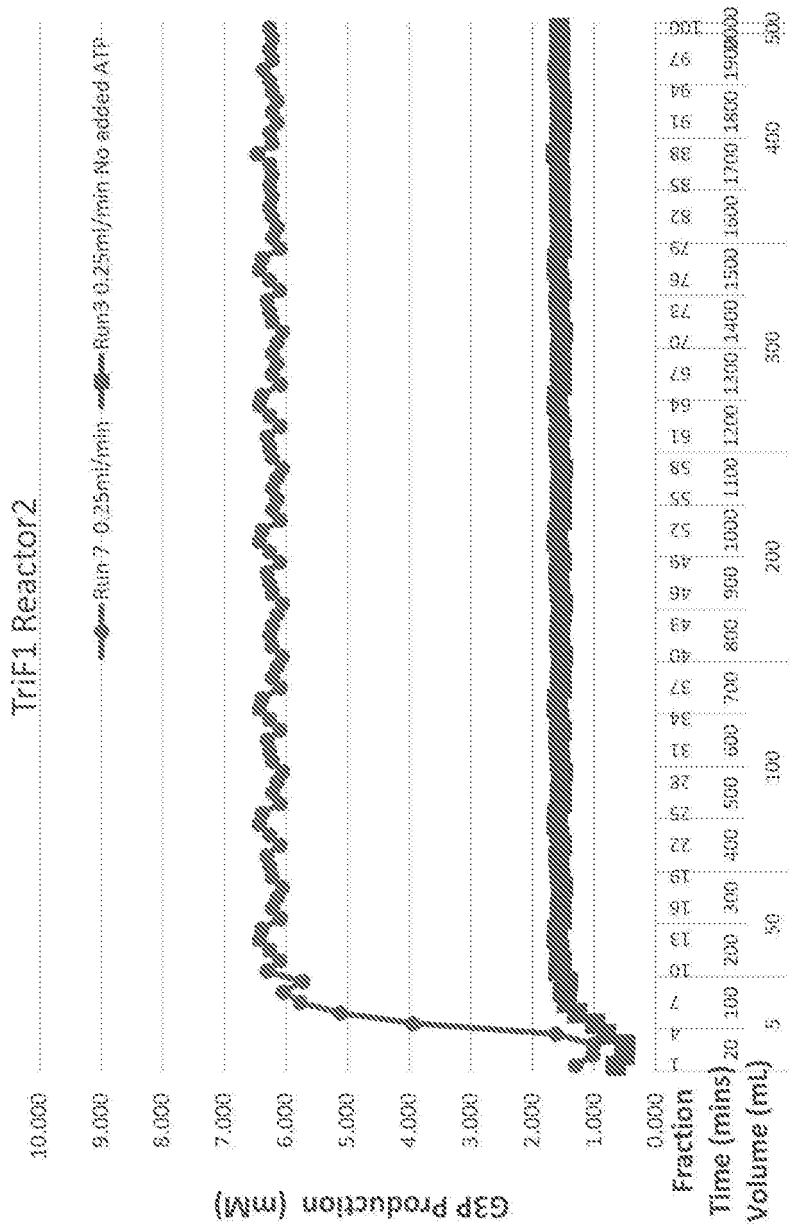


FIGURE 28

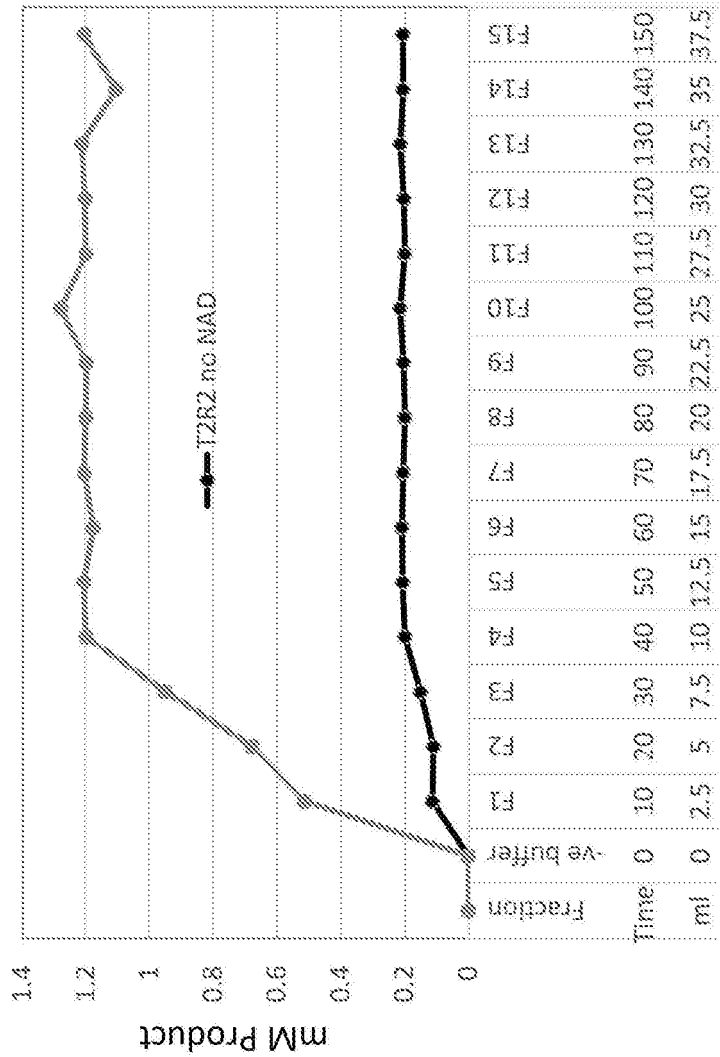


FIGURE 29

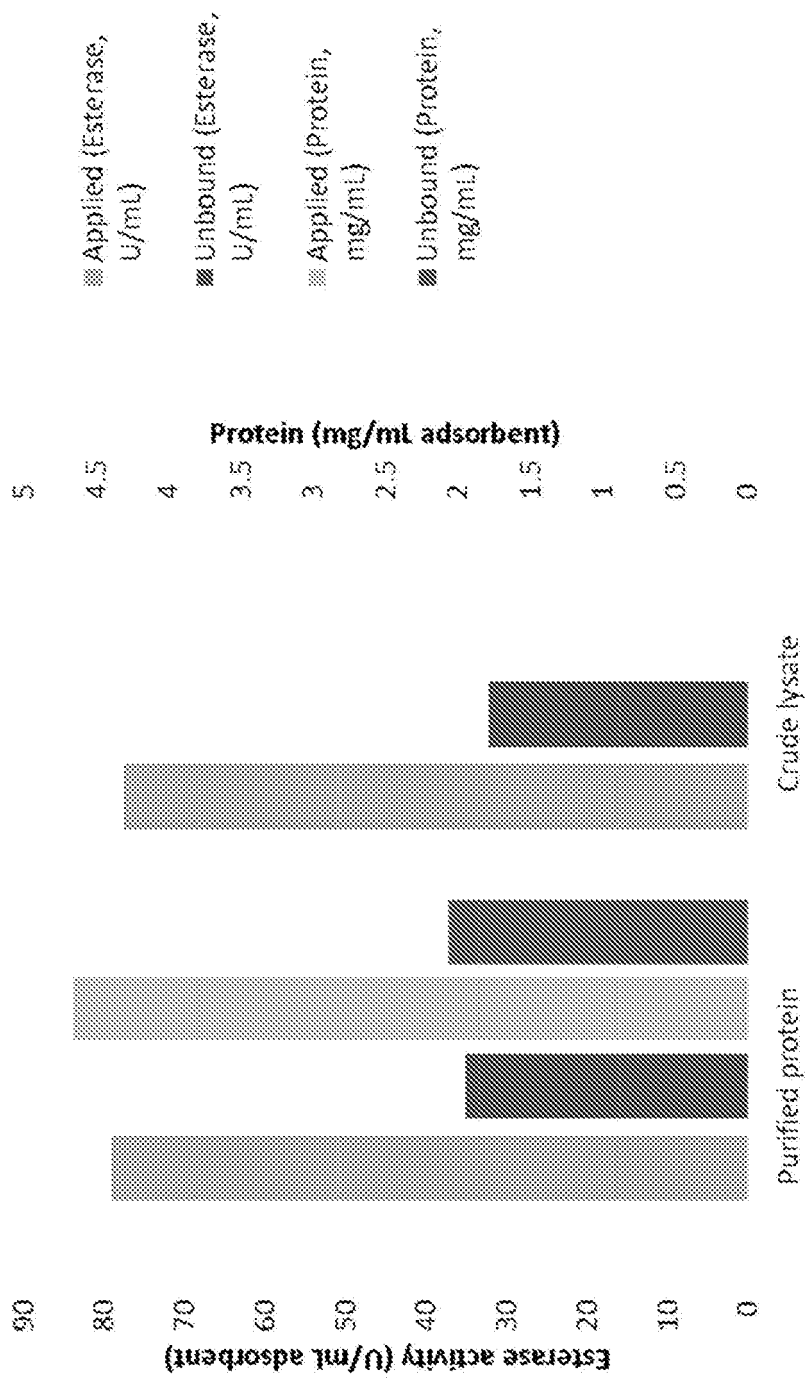
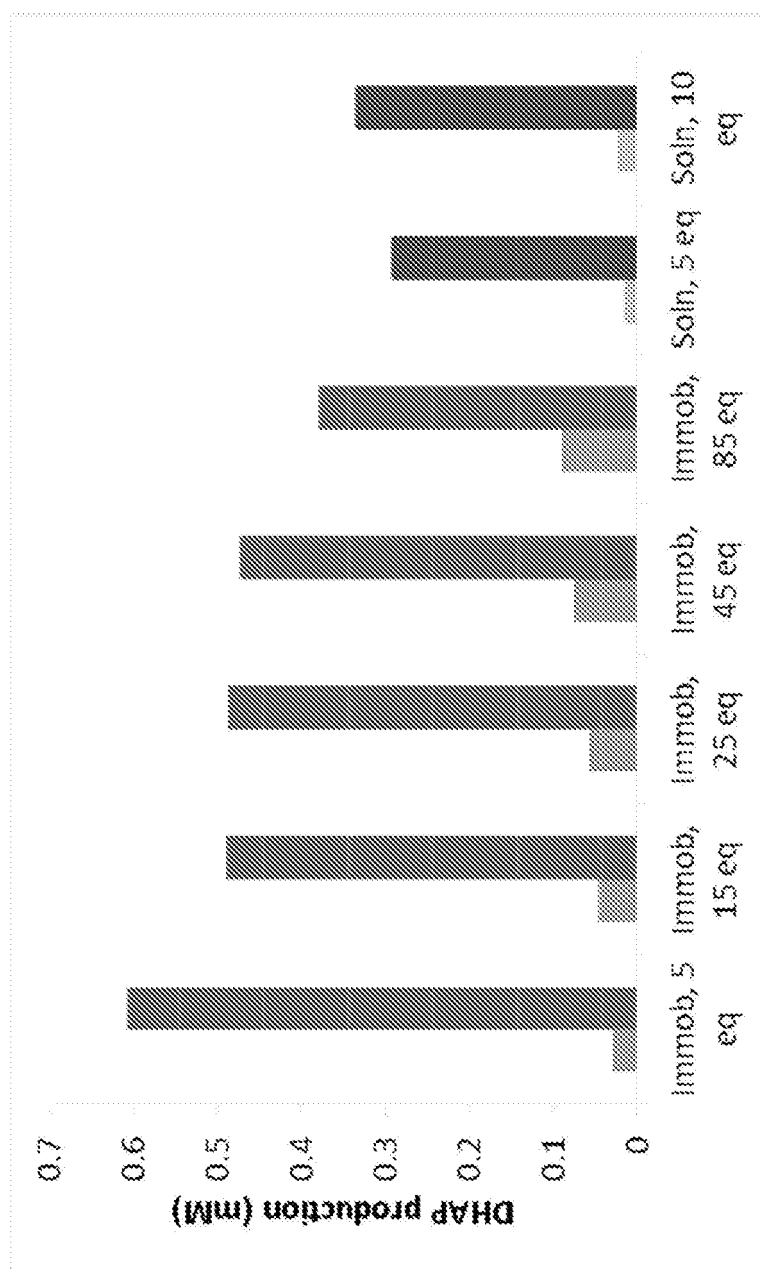


FIGURE 30

**FIGURE 31**

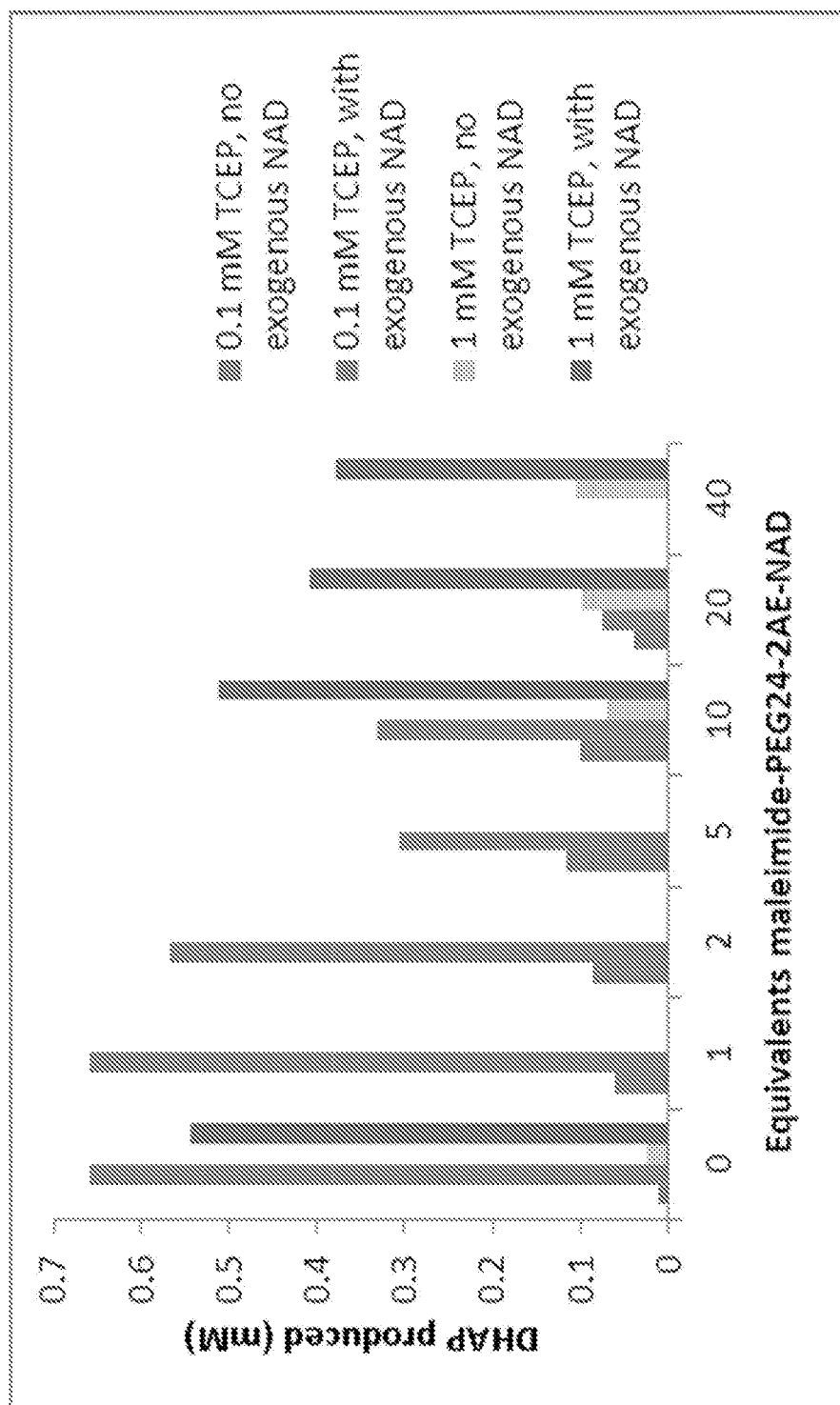


FIGURE 32

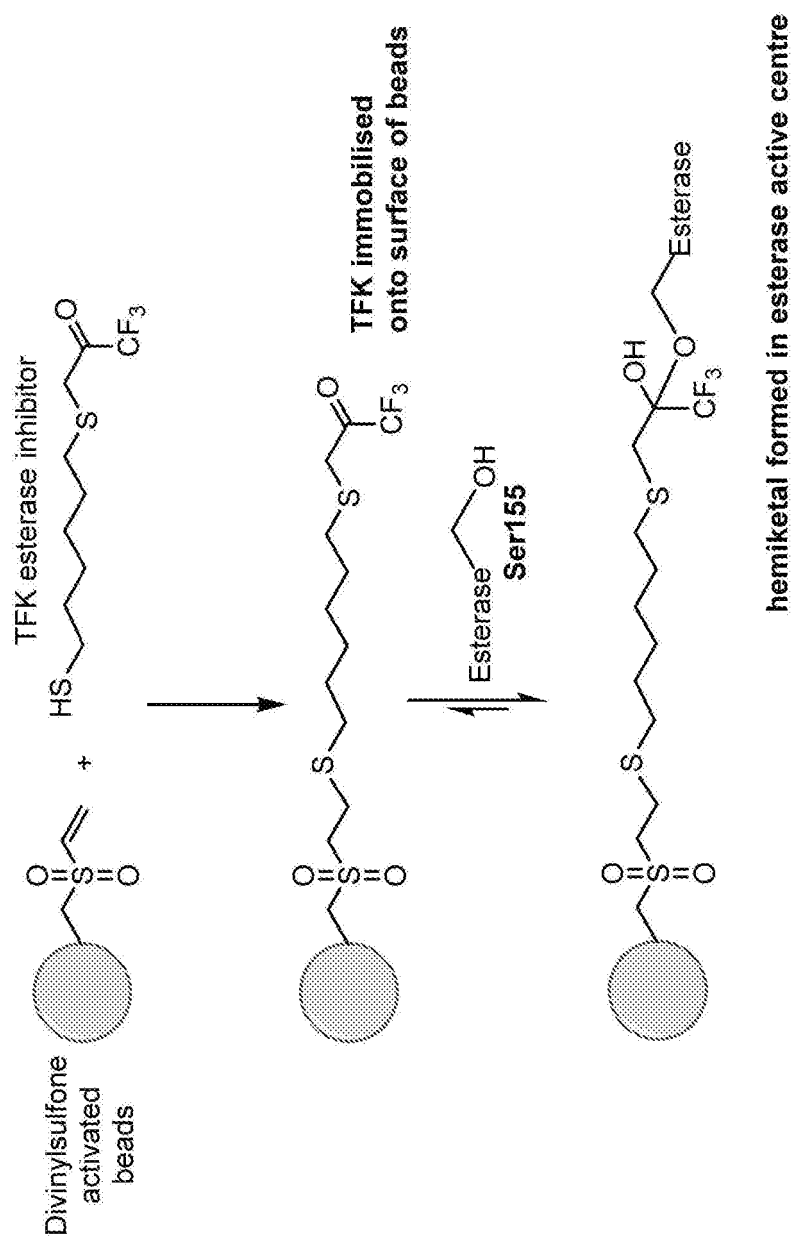


FIGURE 33

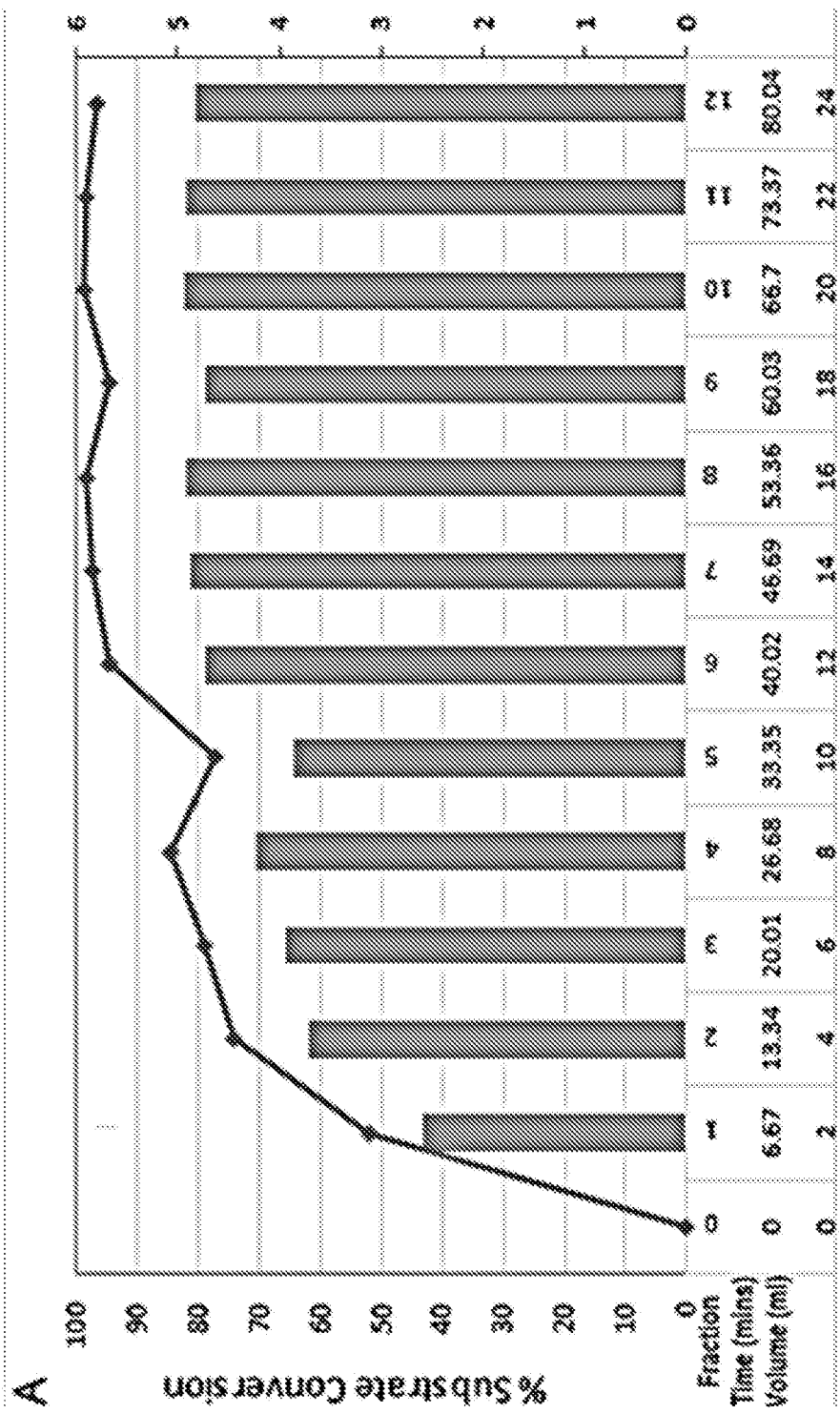


FIGURE 34-1

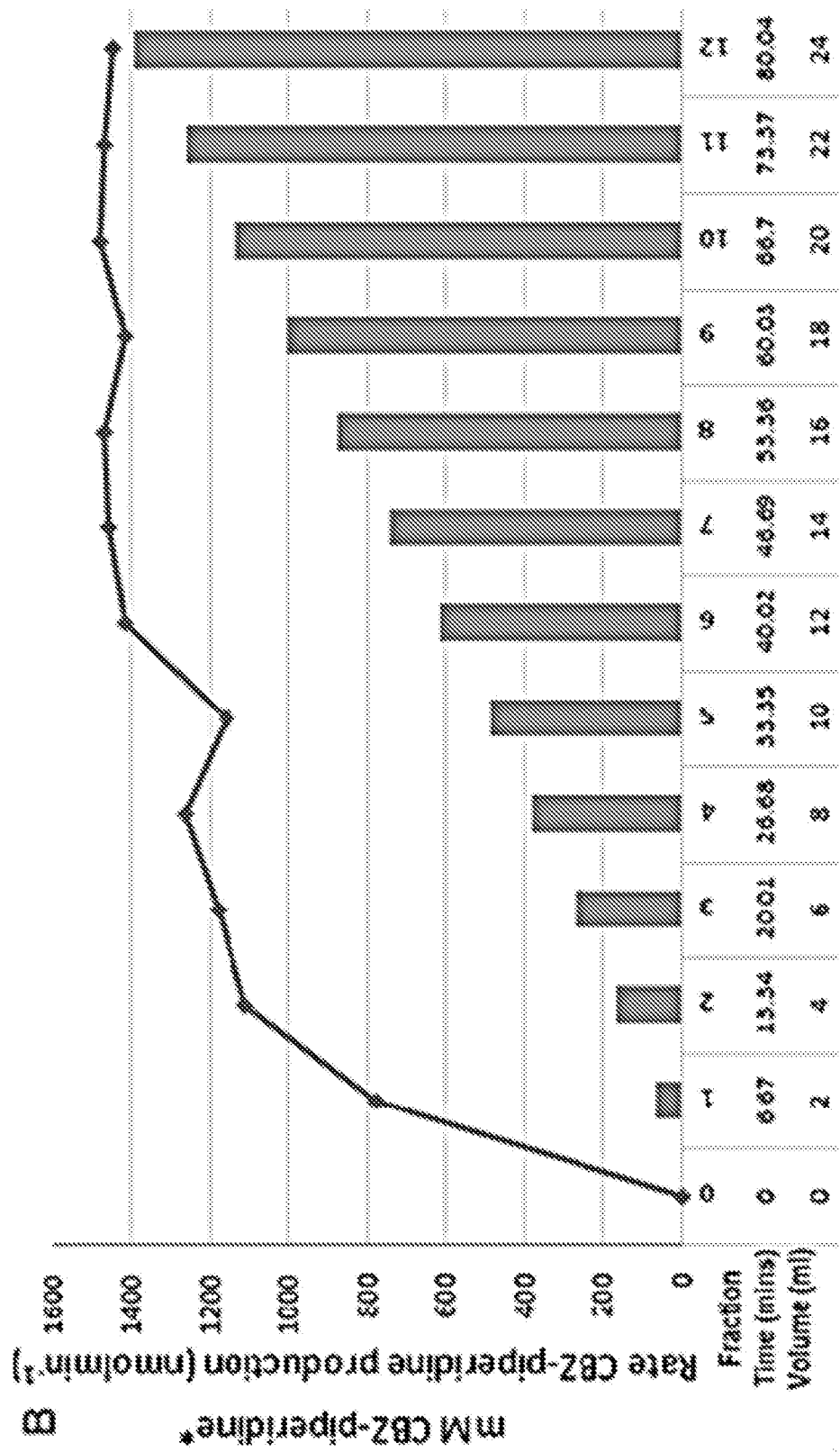


FIGURE 34-2

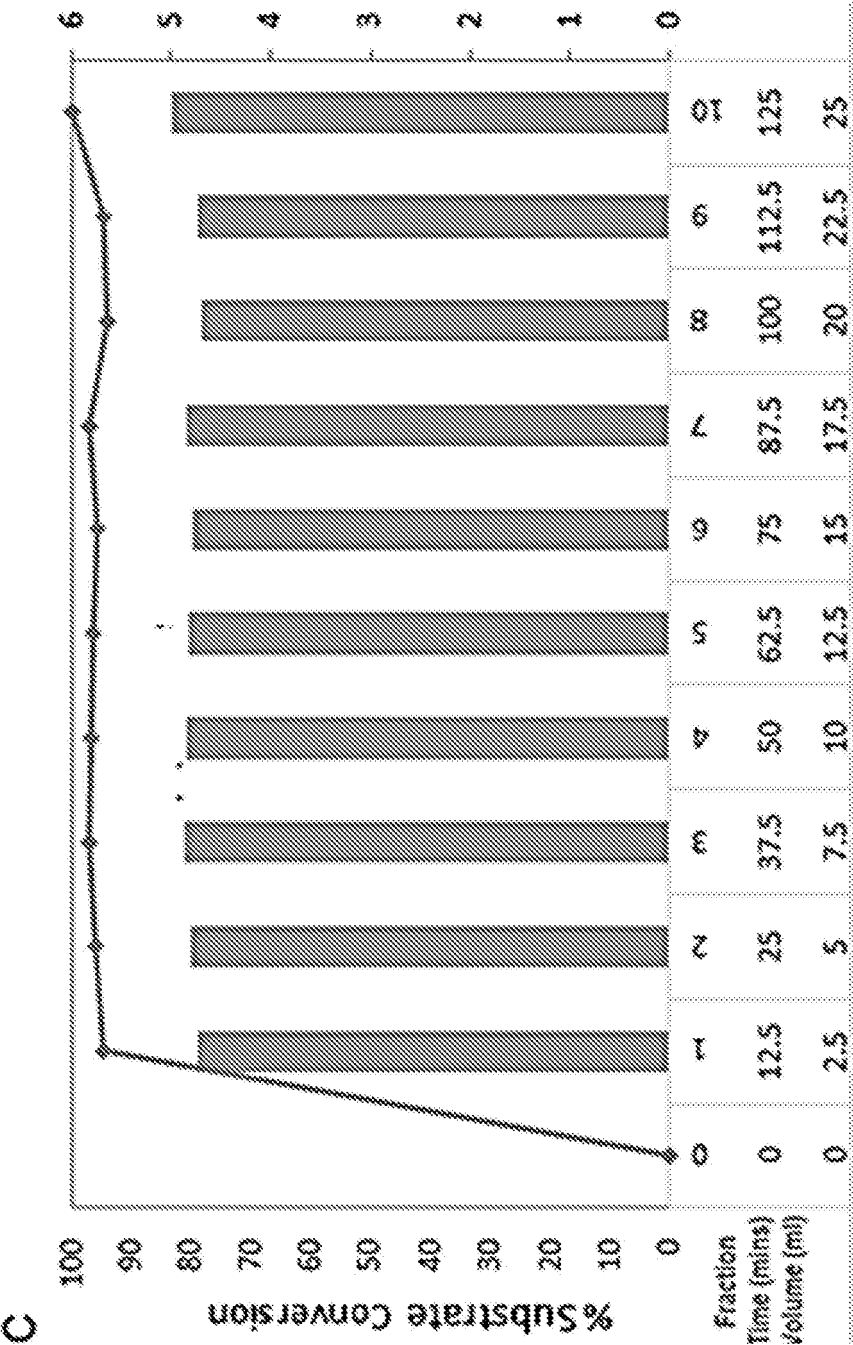


FIGURE 34-3

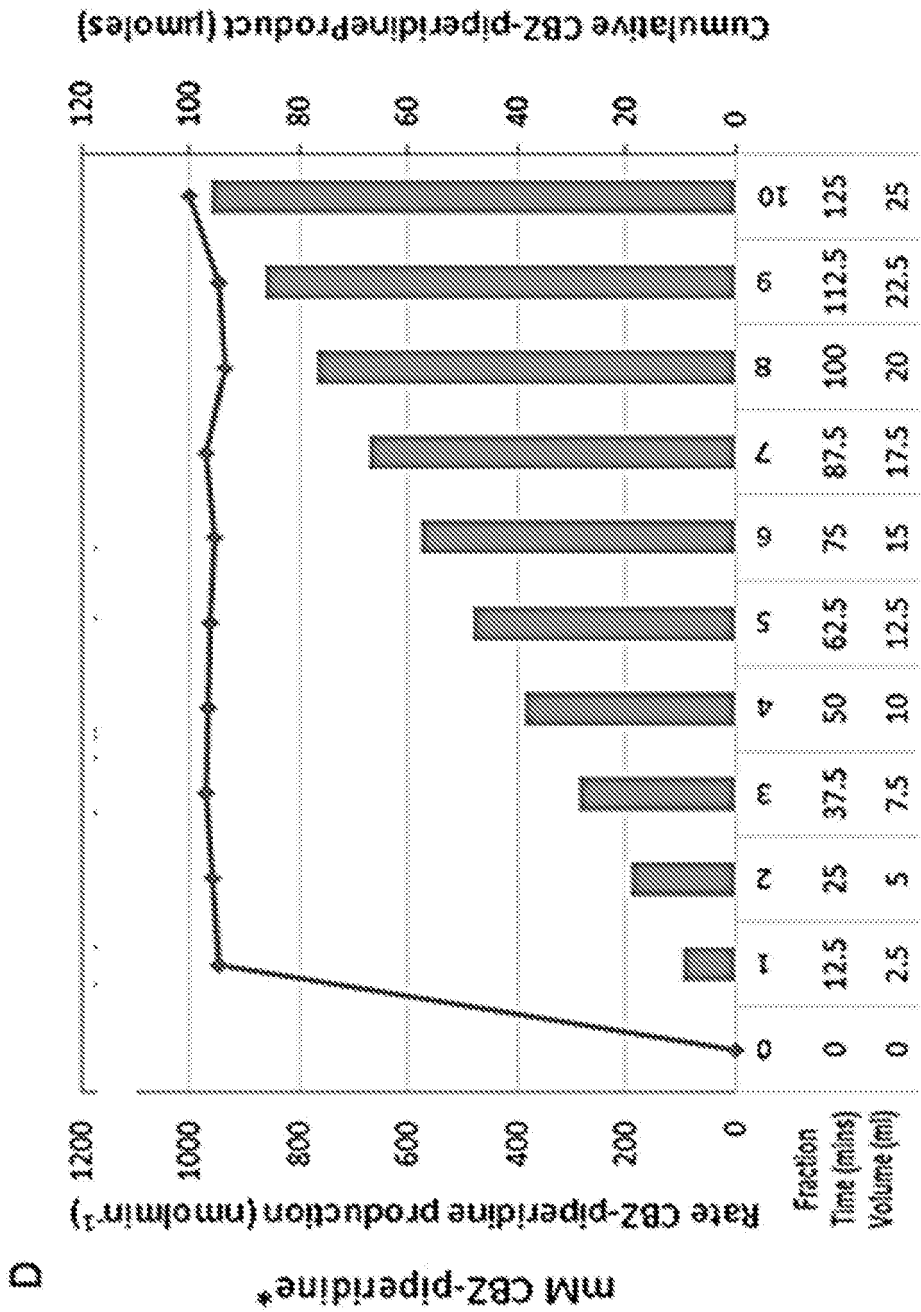
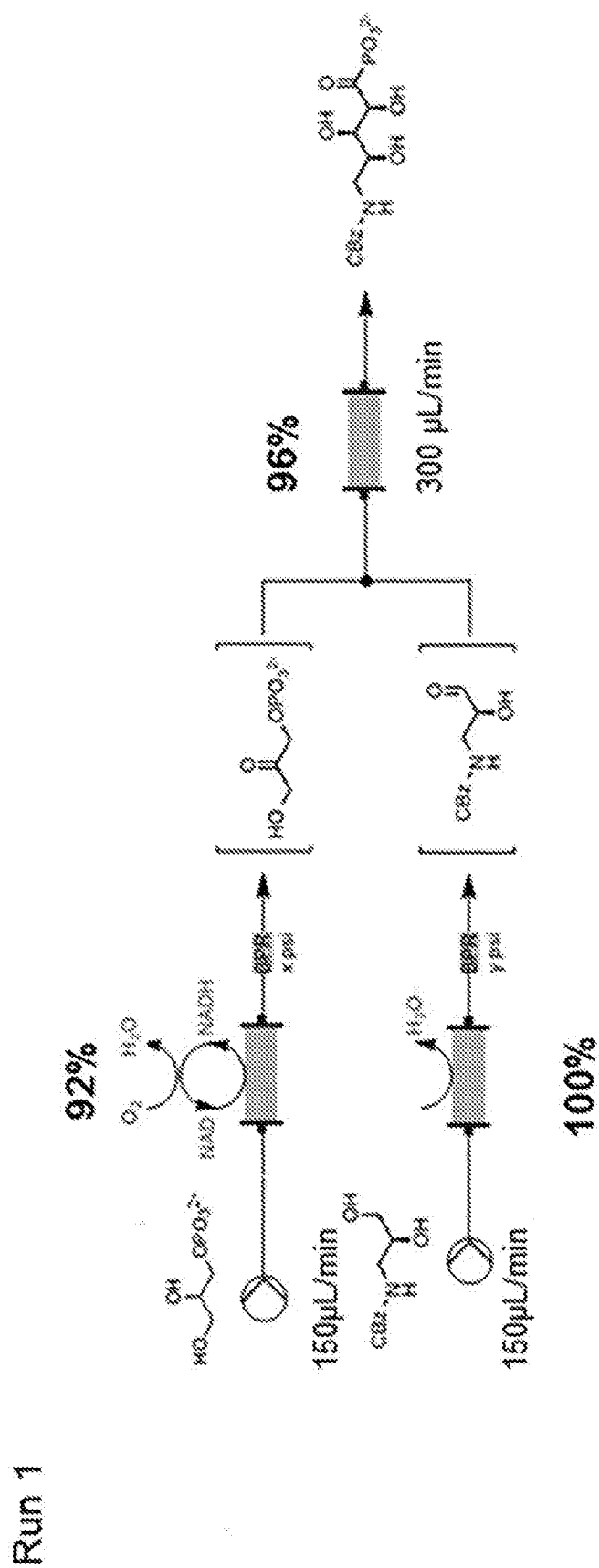


FIGURE 34-4



Run 2

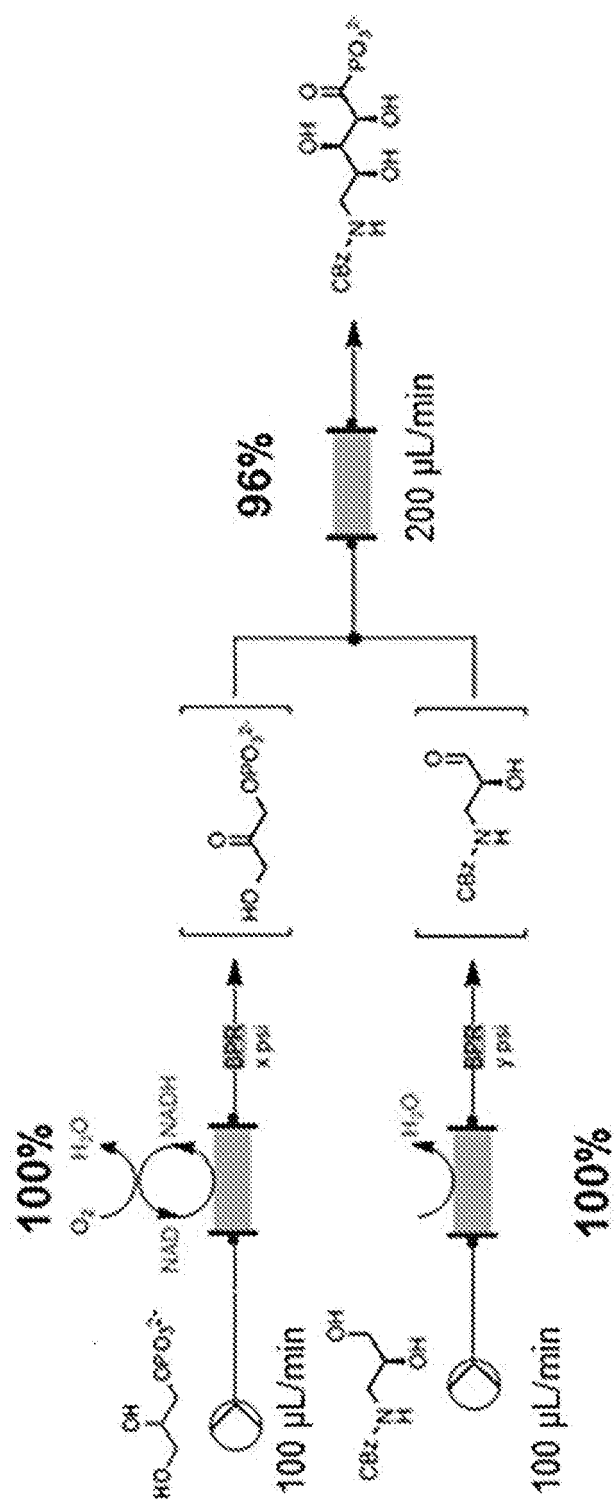


FIGURE 35-2

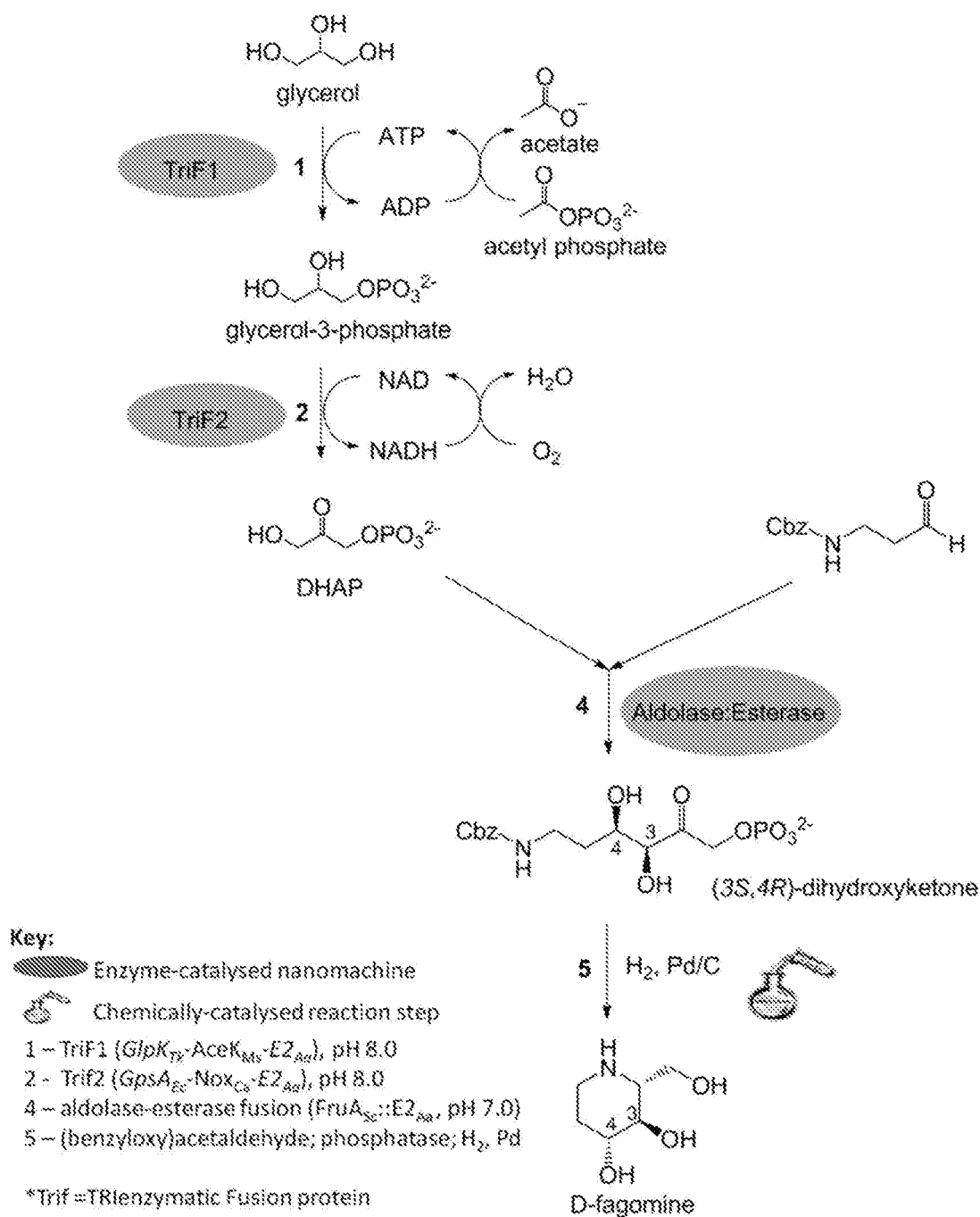


FIGURE 36

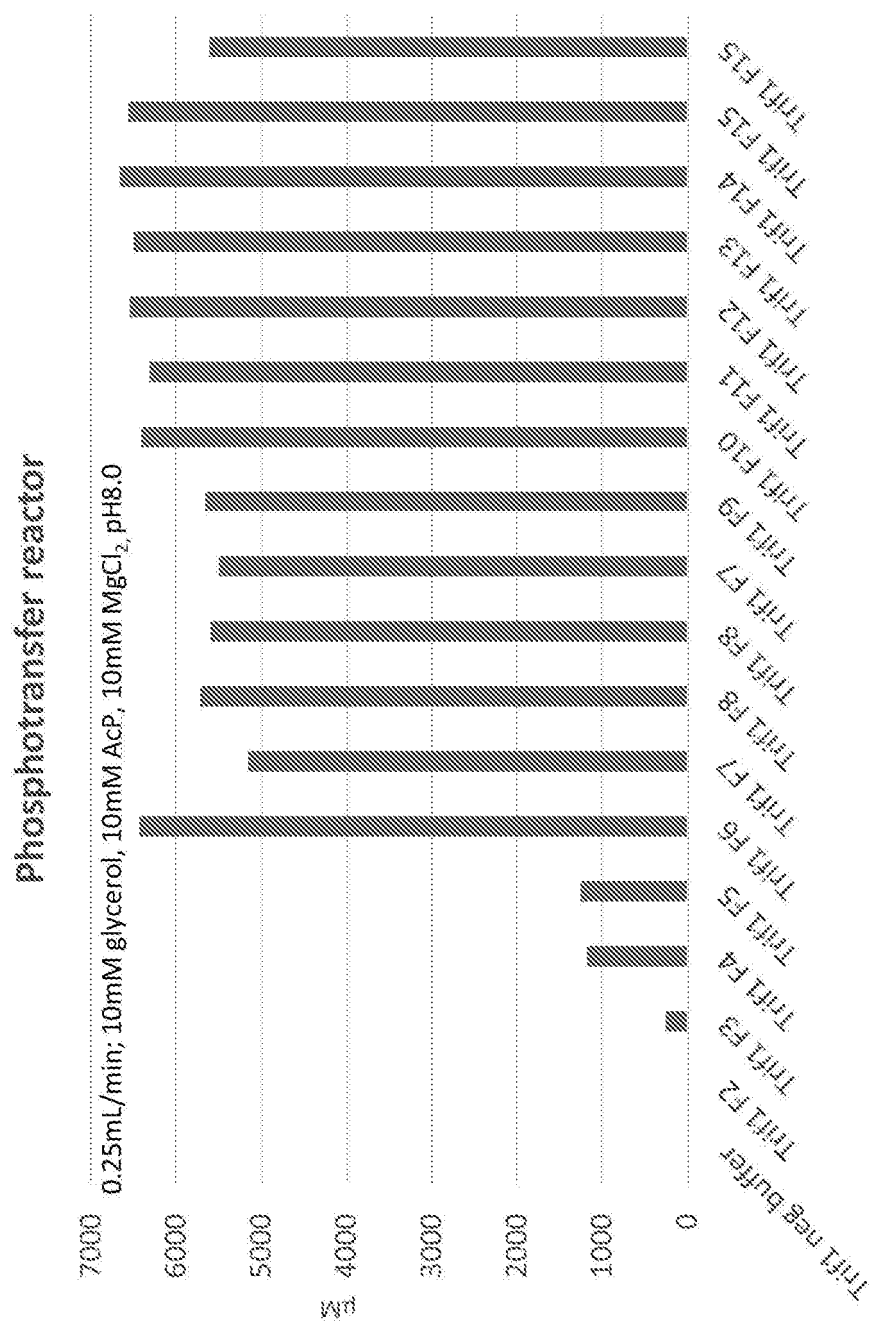


FIGURE 37

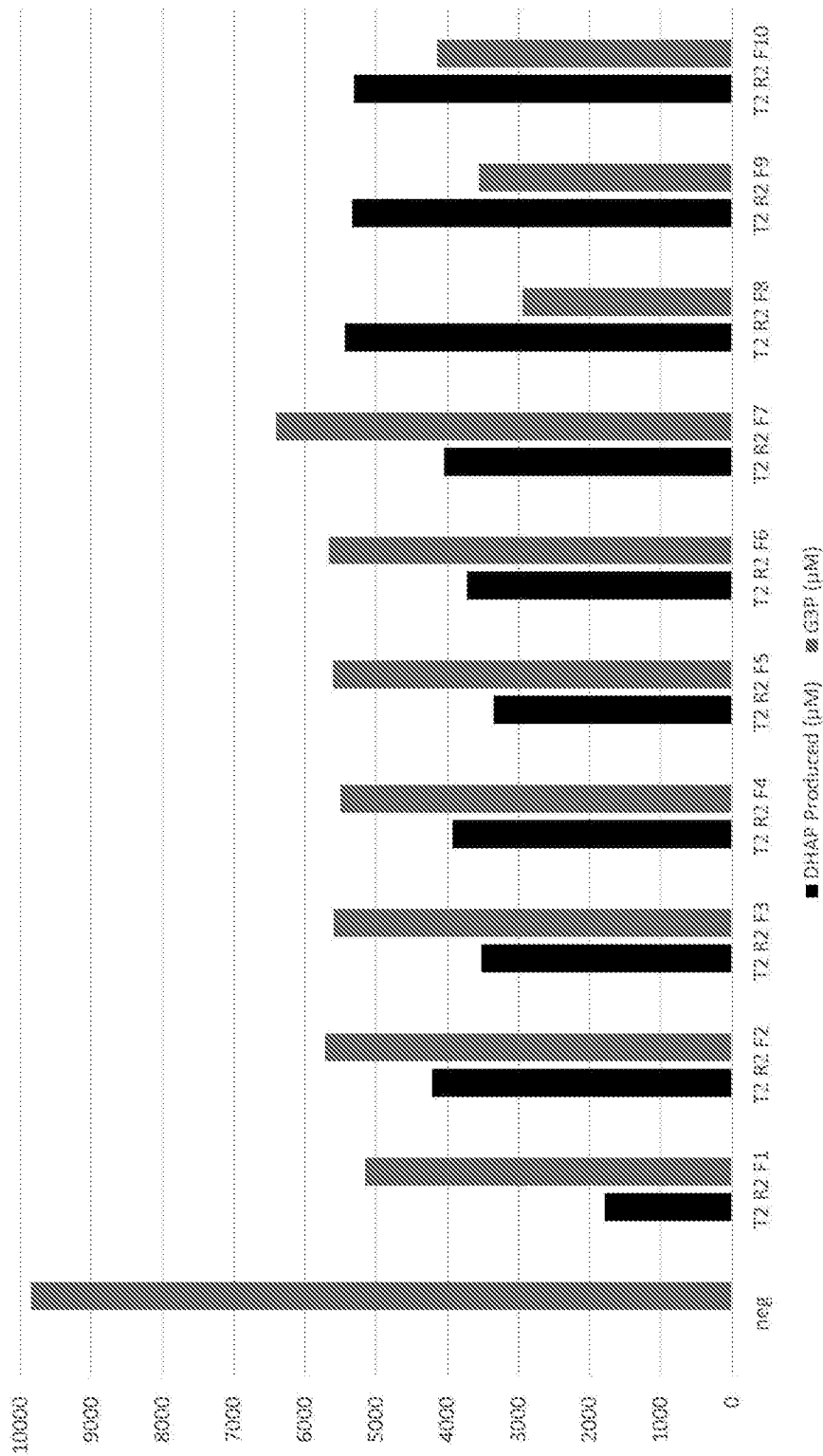


FIGURE 38

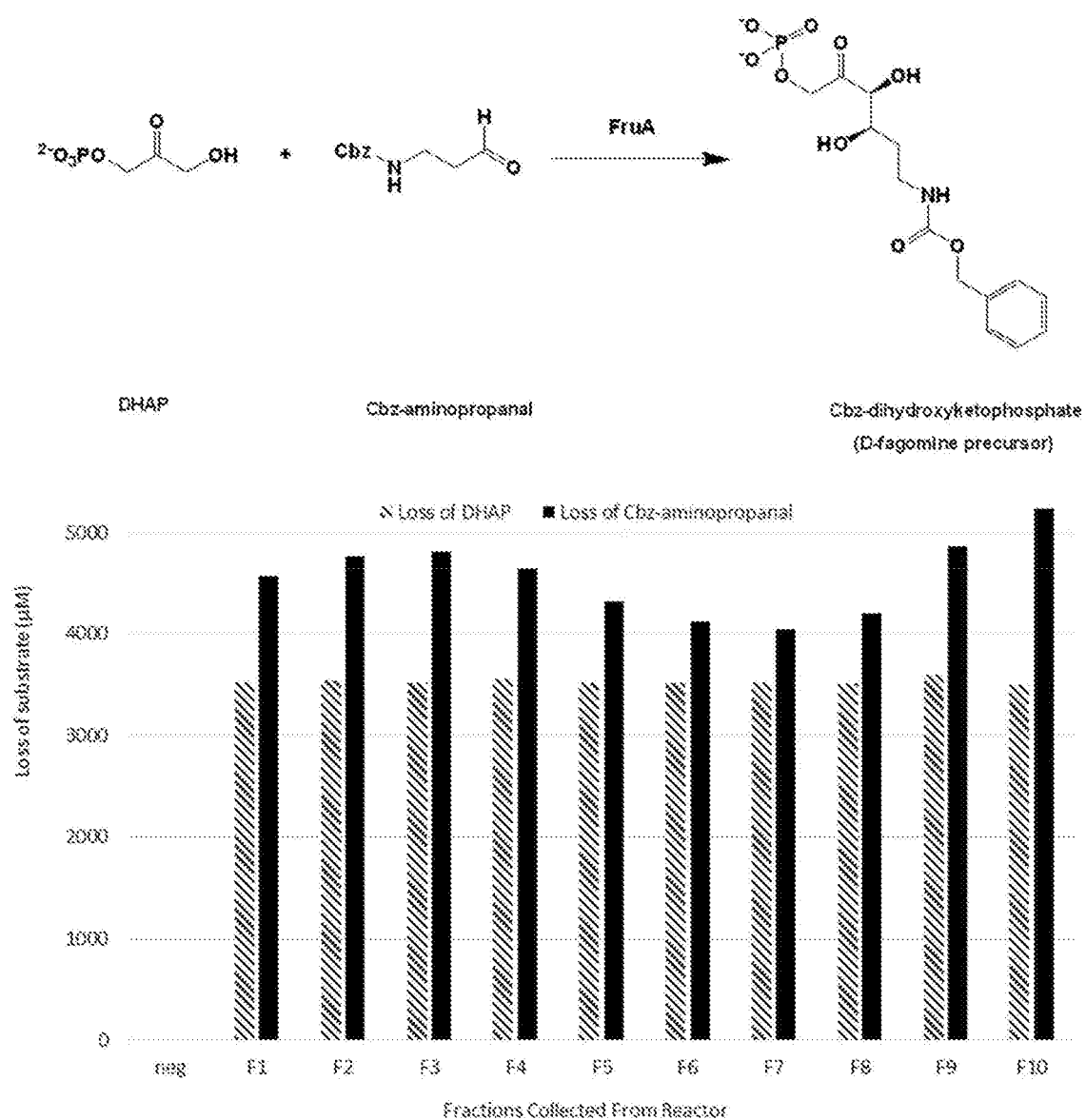
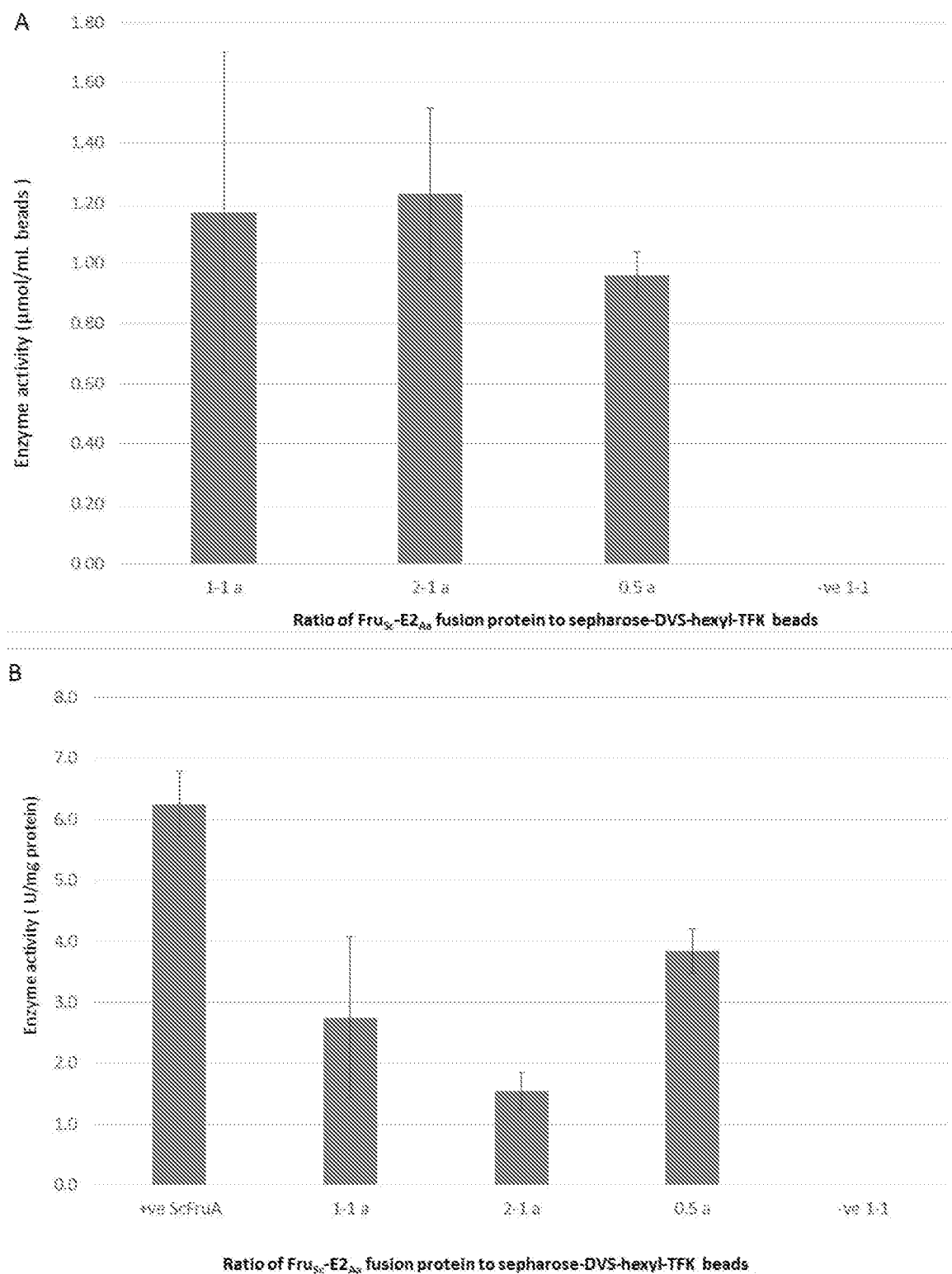


FIGURE 39

**FIGURE 40**

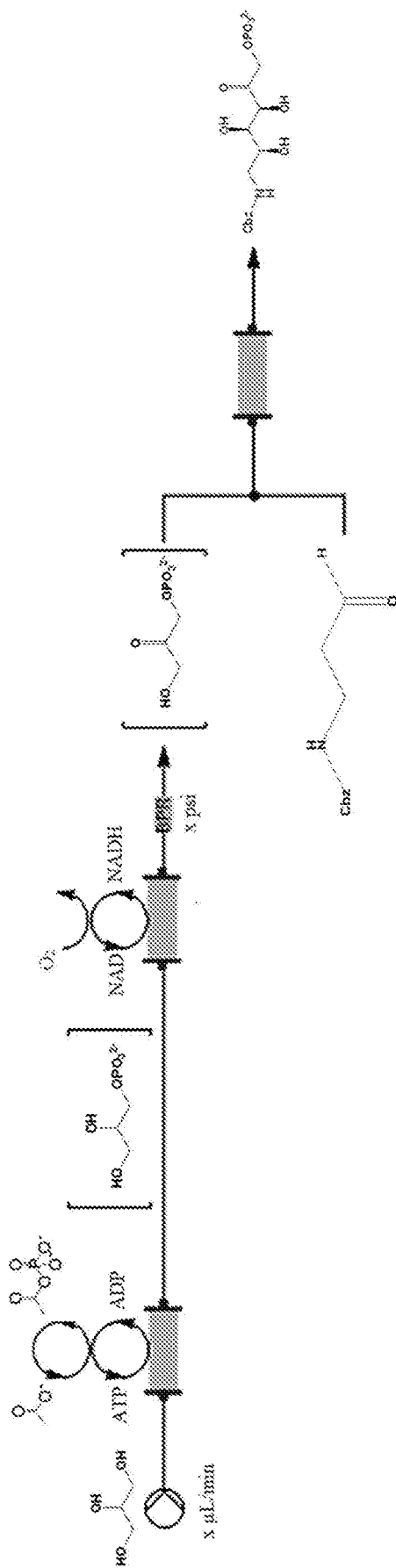


FIGURE 41

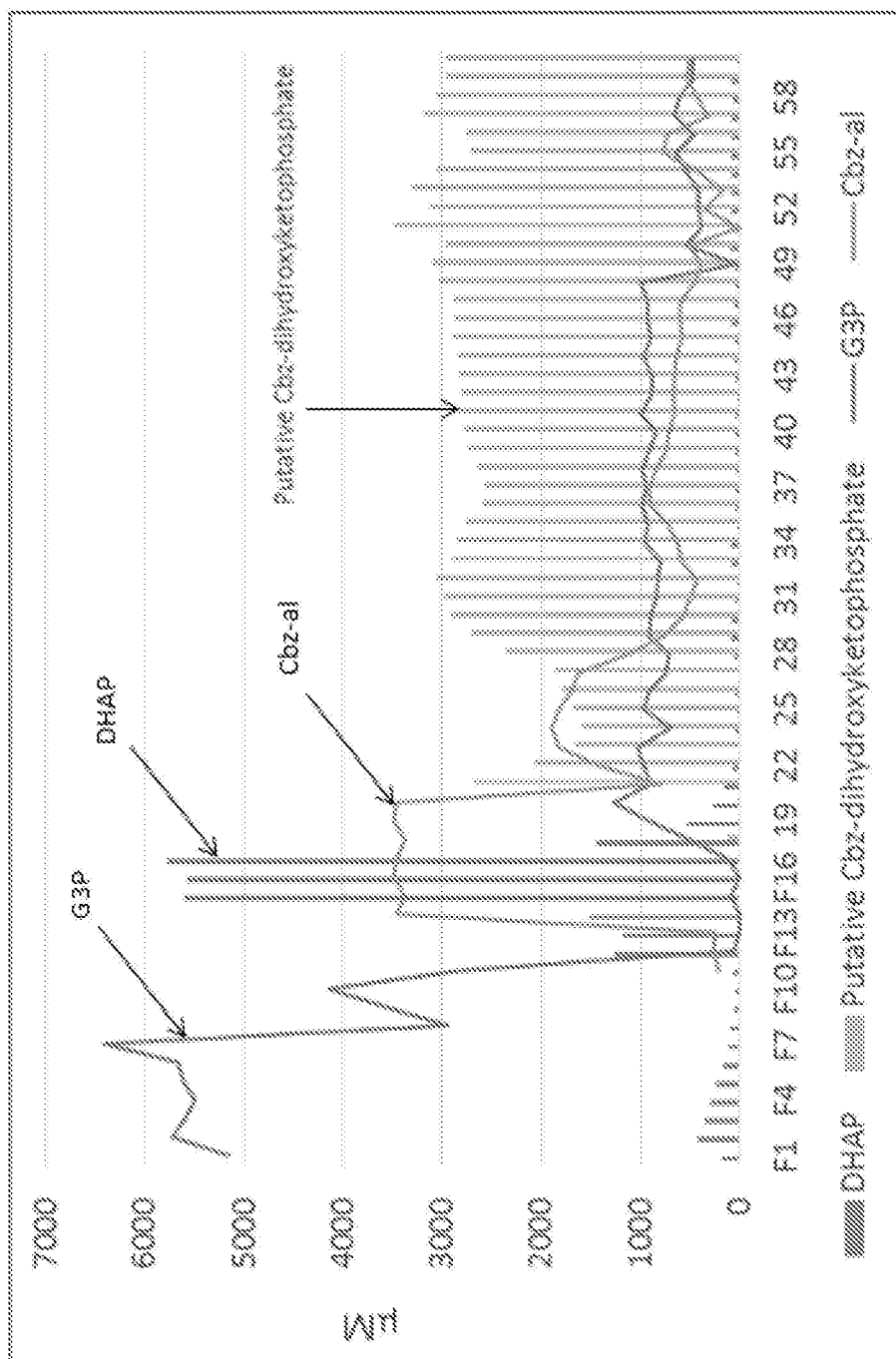


FIGURE 42