The Reactivity of Oxyhemoglobin with H₂S at Physiological Conditions

SIGNIFICANCE

1:90 monitored for 63 min



Comparison of all three reactions at 55 min

INNOVATION

Studying the Sulfhemoglobin complex at physiological temperature could lead to understanding its function in a mammalian system.





APPROACH

Reaction of H₂S and Hemoglobin monitored in a temperature controlled Ultraviolet Spectroscopy at 37 Celsius.

- Formation of Sulfhemoglobin complex is not clear.
- Shift of 419nm band is

CONCLUSIONS

- slight.
- Increase of the 620nm is slight.

FUTURE



Measure the concentration of H_2S to see if the previous reaction had an accurate amount.

UG RISE: Gabriela Dia

UG RISE: Gabriela Diaz Figueroa; n Campus Mentor: Juan Lopez Garriga