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***Vitreoscilla* hemoglobin promotes Salecan production by *Agrobacterium* sp. ZX09**

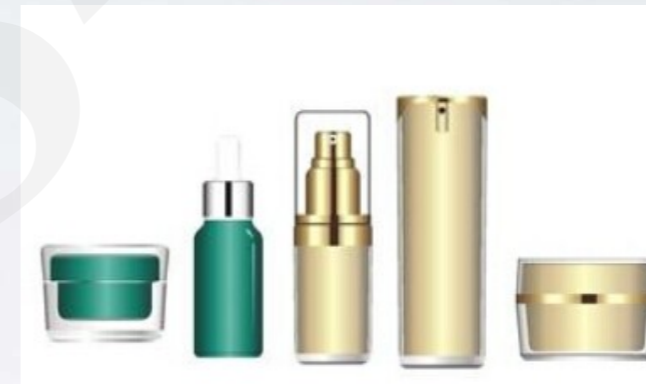
Key words:

Salecan, *Vitreoscilla* Hemoglobin, *Agrobacterium* sp. ZX09, invertase, respiration rate

Application of salecan



Industry:



Agriculture:

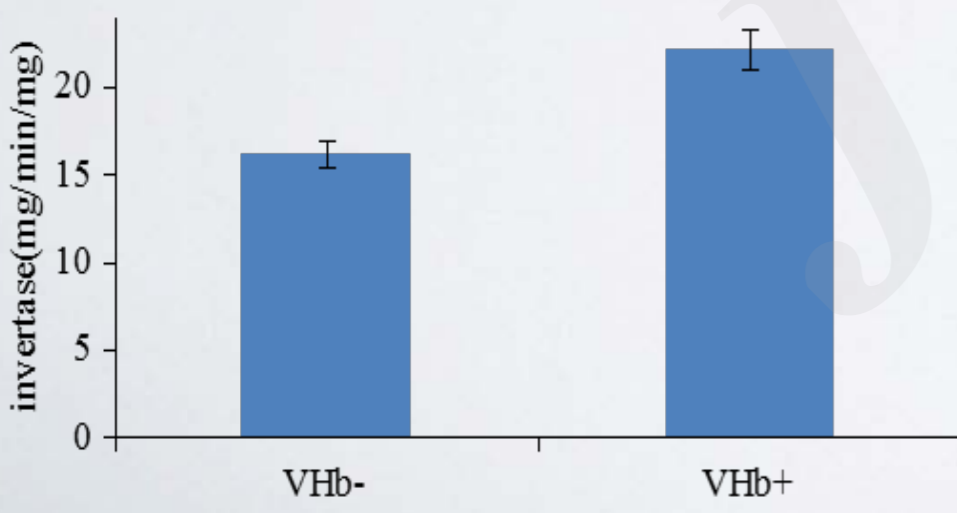
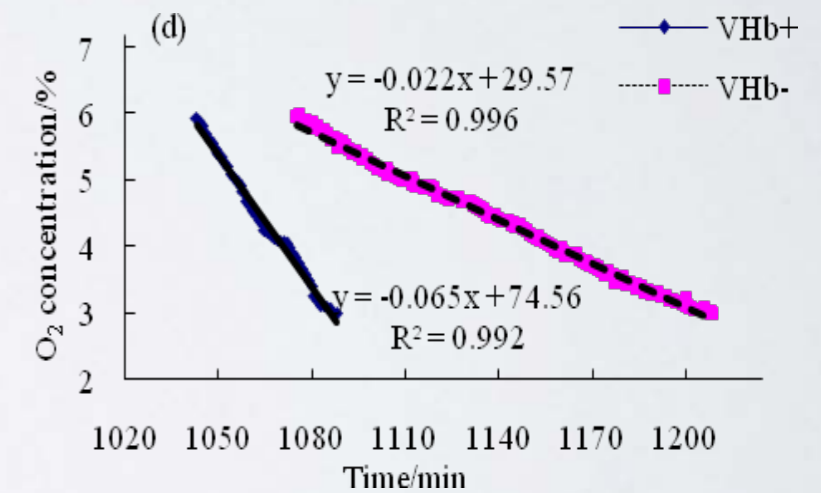
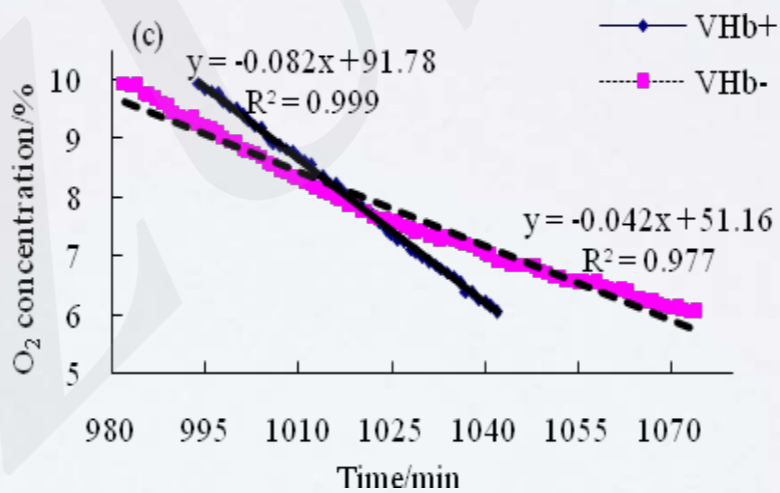
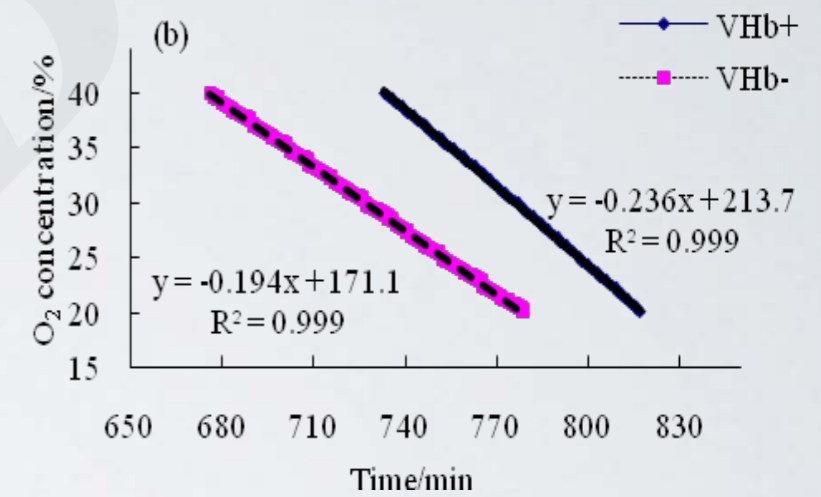
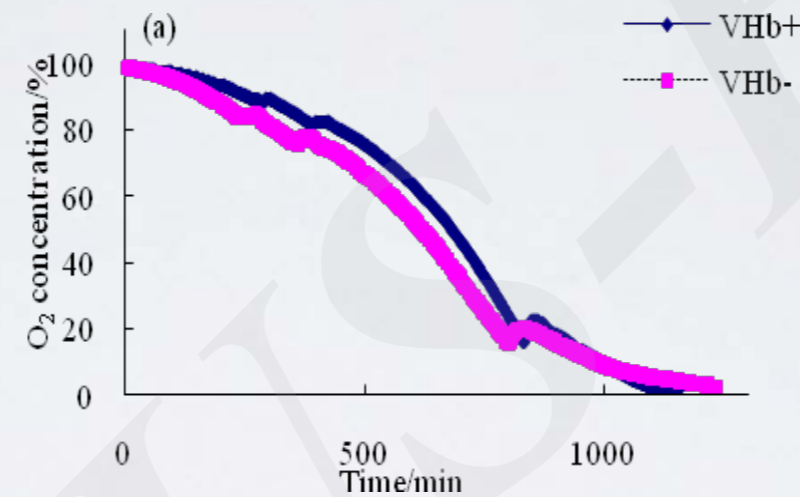


Medicine and food:



Research Summary

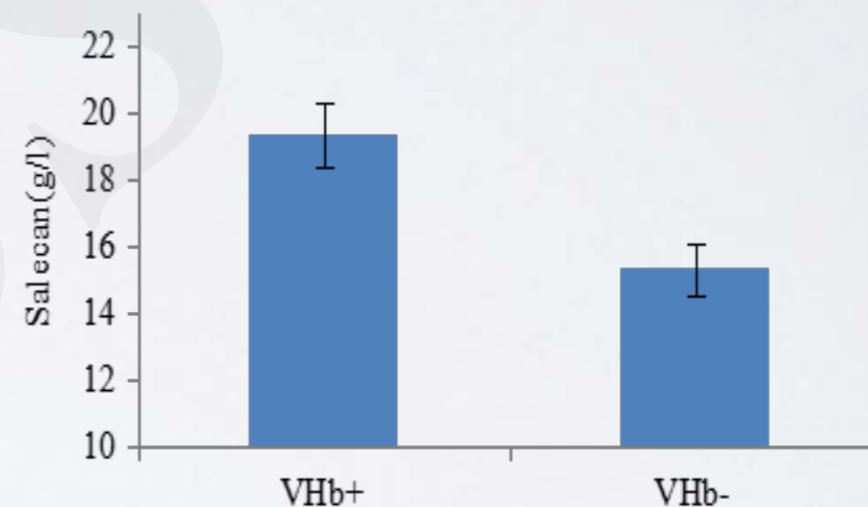
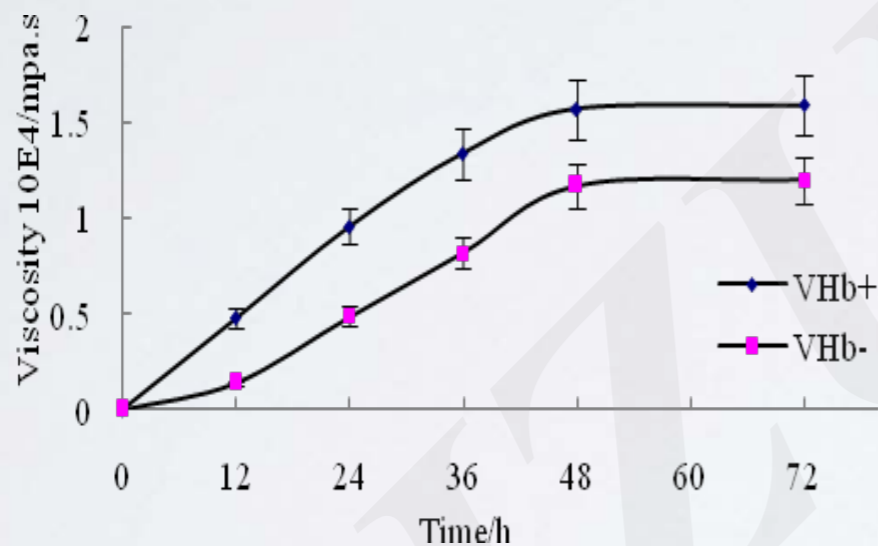
This study mainly focused on increasing salecan yield in the strain *Agrobacterium* sp. ZX09 by *Vitreoscilla* hemoglobin



- Vhb overcame the O₂ limiting during salecan fermentation: Increasing respiration rate
- Vhb increased cellular invertase activity

Research Results

- VHb increased viscosity yield
- VHb increased salecan production



The benefit for the approach is its ease of handling, and usefulness for field fermentation