

LAPORAN HASIL PENELITIAN

ANALISA *IN SILICO* ENZIM ZINGIBAIN TERHADAP PROTEIN KATARAK

oleh

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MASYARAKAT

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BIAYA MANDIRI

## BAB 5. KESIMPULAN DAN SARAN

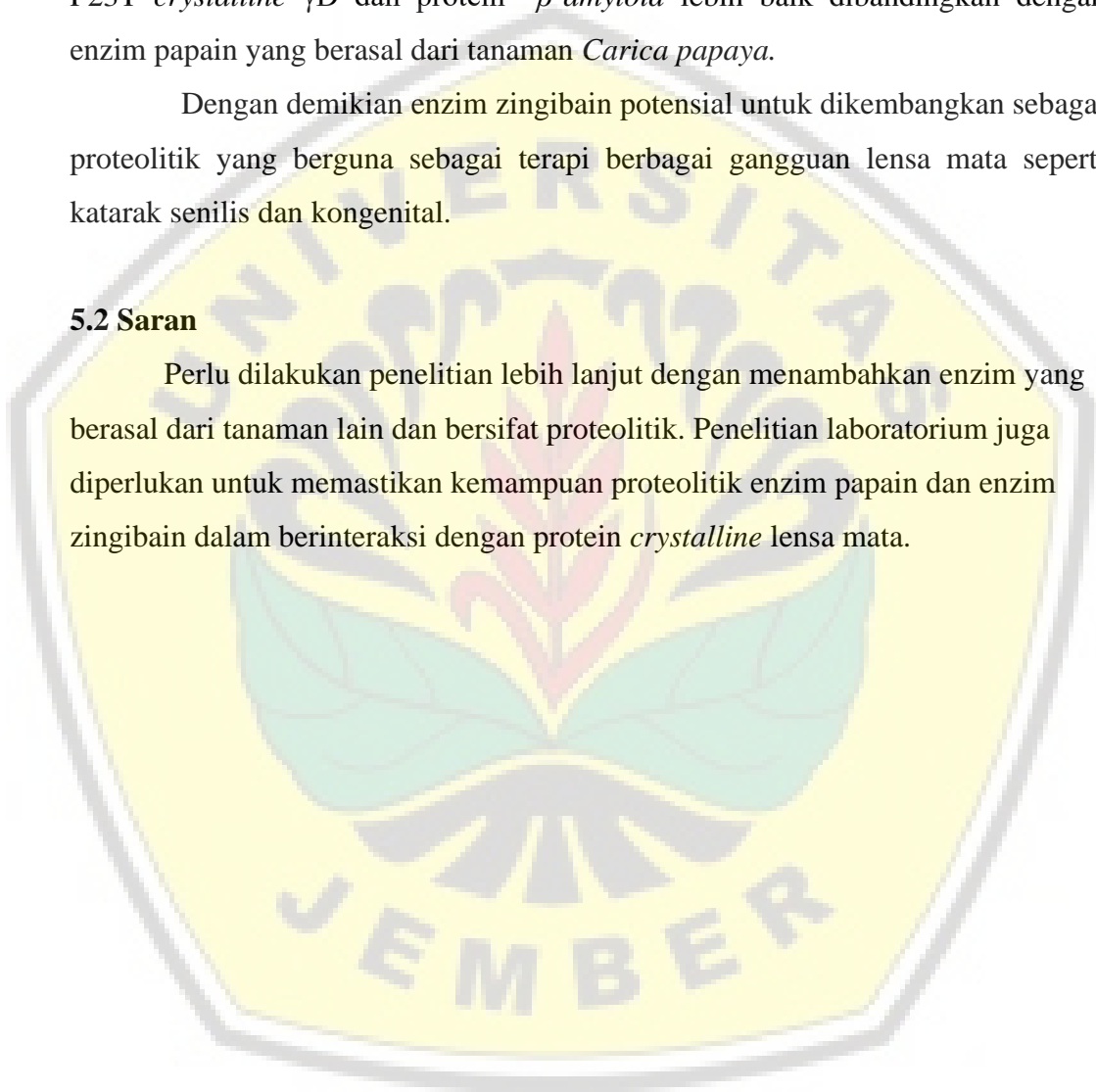
### 5.1 Kesimpulan

Diperoleh kesimpulan bahwa enzim zingibain yang berasal dari tanaman *Zingiber officinale* memiliki kemampuan membentuk ikatan terhadap protein P23T *crystalline*  $\gamma$ D dan protein  $\beta$ -*amyloid* lebih baik dibandingkan dengan enzim papain yang berasal dari tanaman *Carica papaya*.

Dengan demikian enzim zingibain potensial untuk dikembangkan sebagai proteolitik yang berguna sebagai terapi berbagai gangguan lensa mata seperti katarak senilis dan kongenital.

### 5.2 Saran

Perlu dilakukan penelitian lebih lanjut dengan menambahkan enzim yang berasal dari tanaman lain dan bersifat proteolitik. Penelitian laboratorium juga diperlukan untuk memastikan kemampuan proteolitik enzim papain dan enzim zingibain dalam berinteraksi dengan protein *crystalline* lensa mata.



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