

**COMPARATIVE *IN VITRO* EVALUATION OF  
THE CYTOPROTECTIVE EFFECTS OF  
*PHYSALIS ANGULATA* AND *VITEX TRIFOLIA* EXTRACTS  
IN UVB-EXPOSED HACAT CELLS**



By  
Chelsea Clarisa  
22010001

School of Life Sciences  
Indonesia International Institute for Life Sciences

In partial fulfillment of the requirements for the degree of  
Pharmacy

Jakarta, Indonesia  
2025