



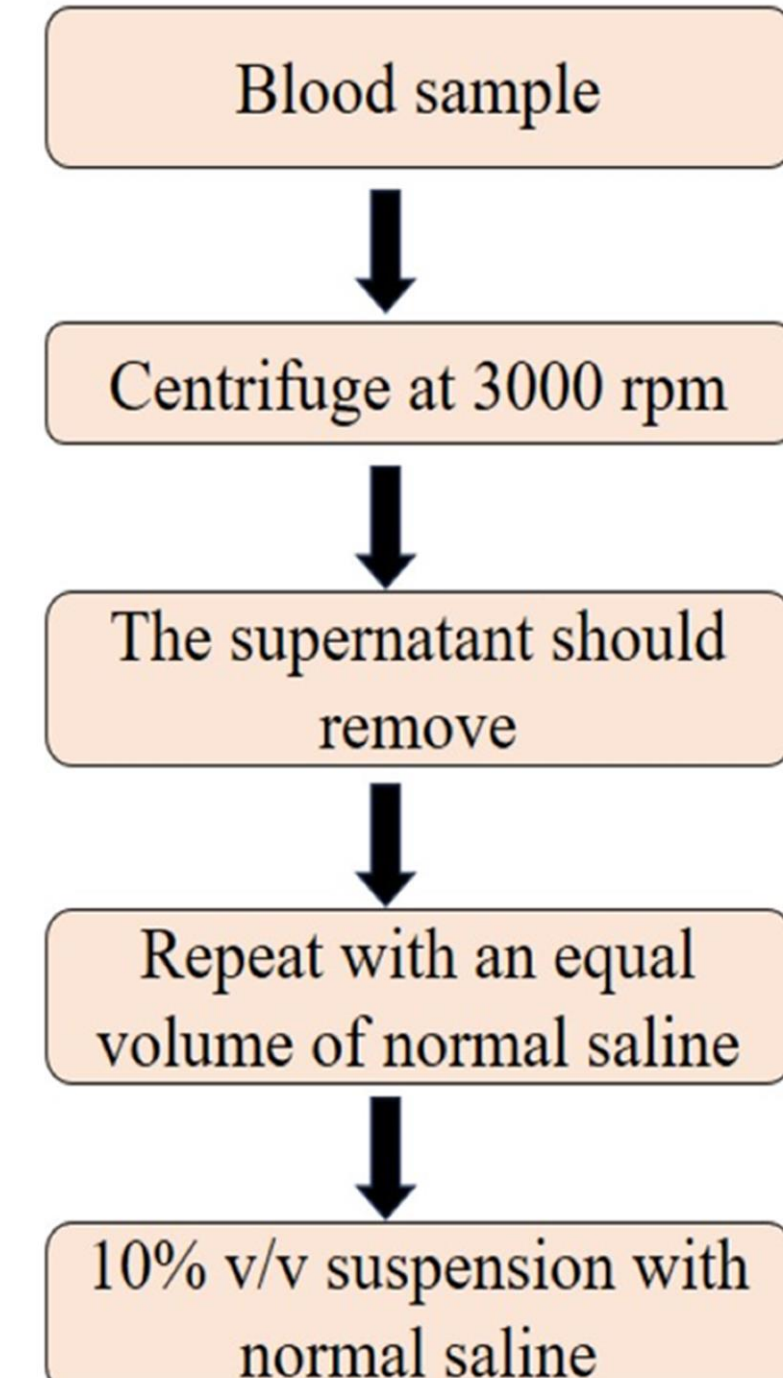
What is inflammation?

Inflammation is part of the body's defence mechanism. It is the process by which the immune system recognizes and removes harmful and foreign stimuli and begins the healing process.

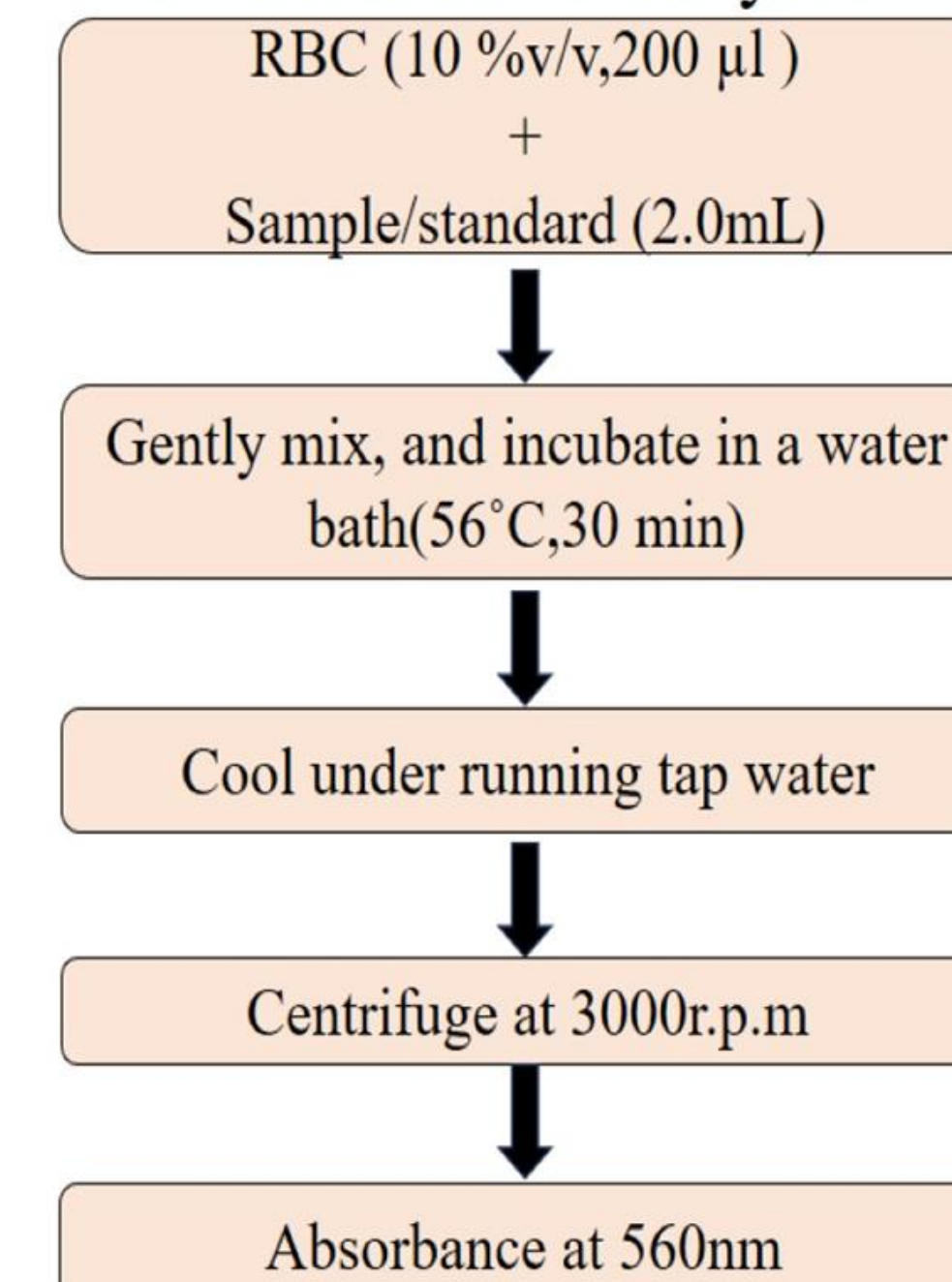


Method - HRBC membrane stabilization assay

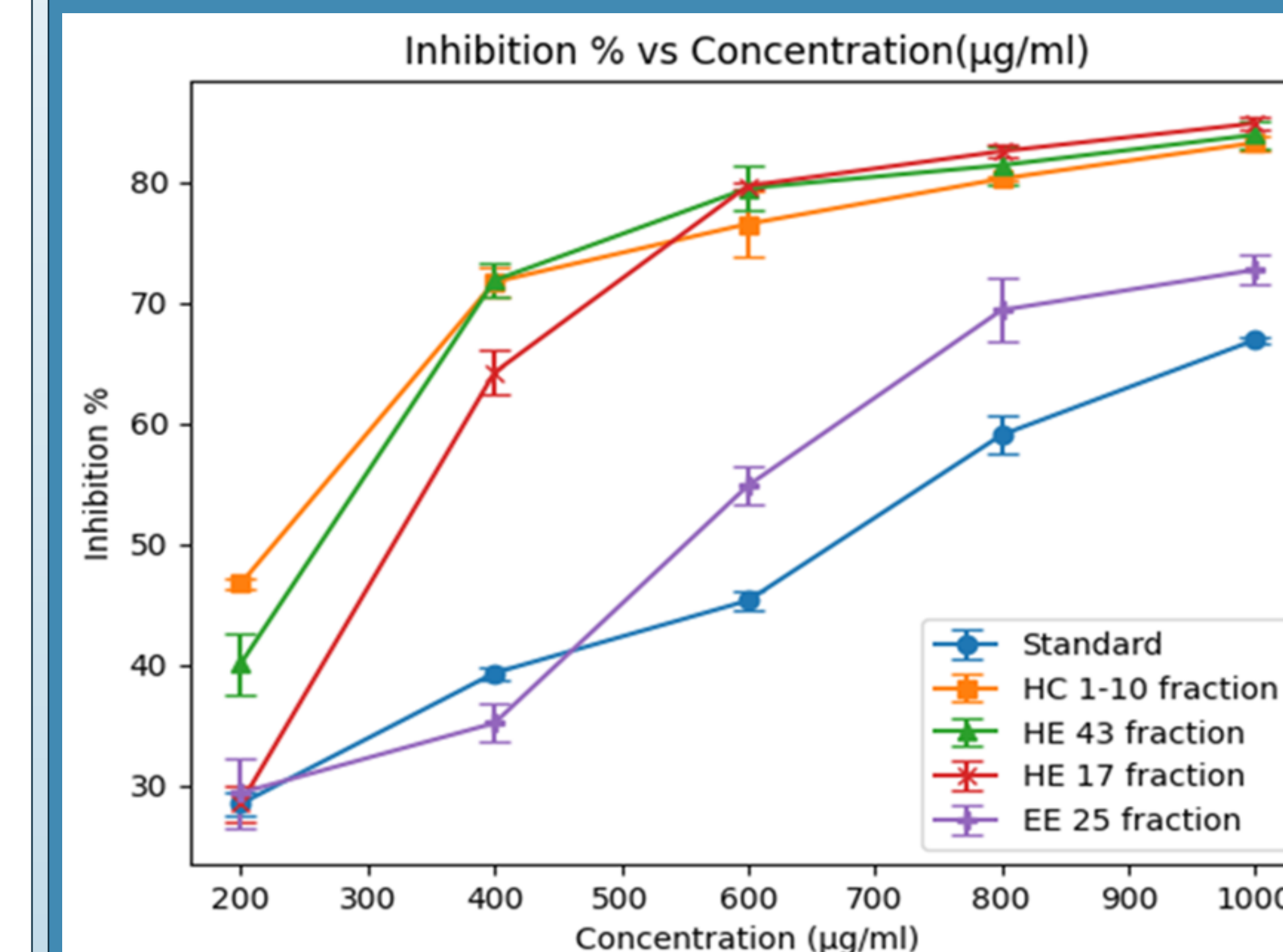
Preparation of Blood Sample



Heat-Induced Hemolysis

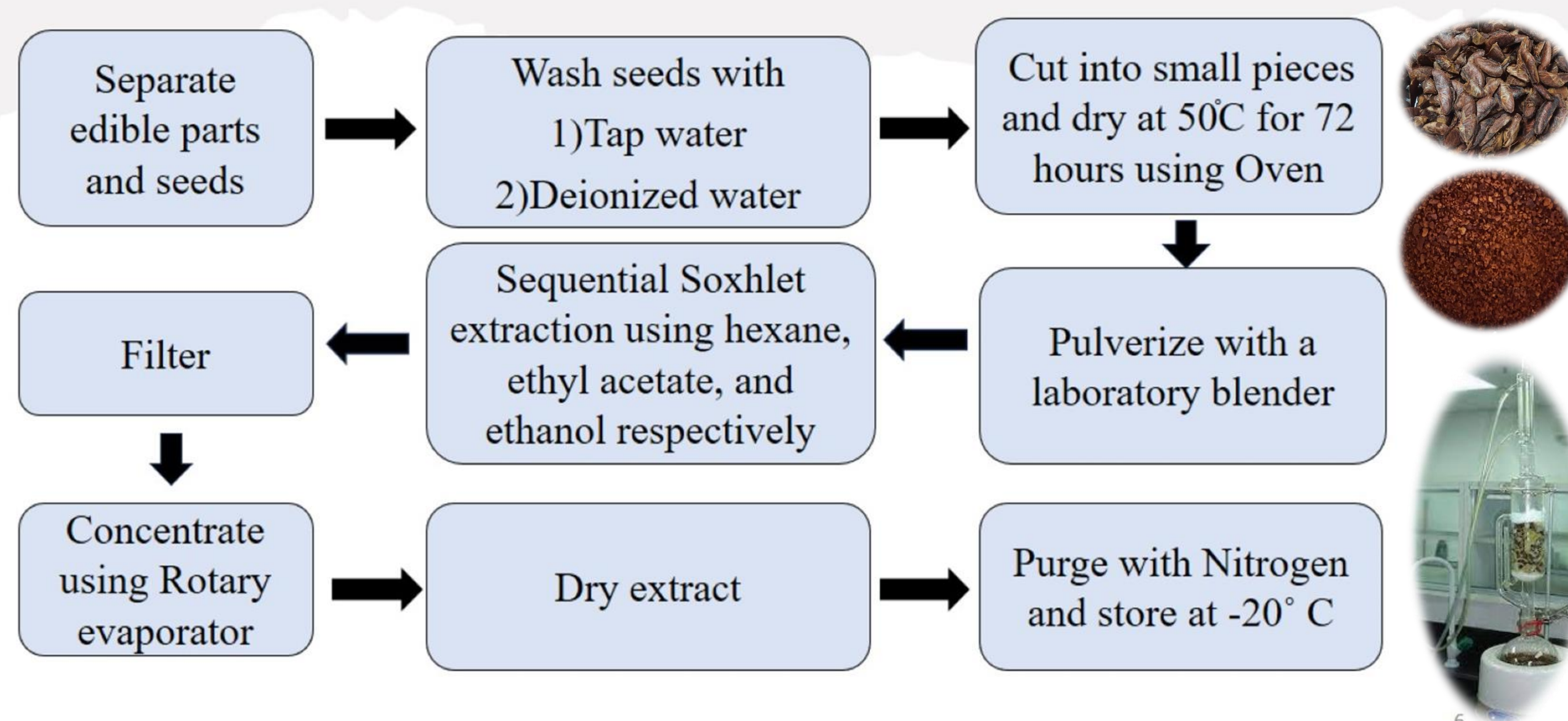


Results -Anti-inflammatory activities of seed extract fractions

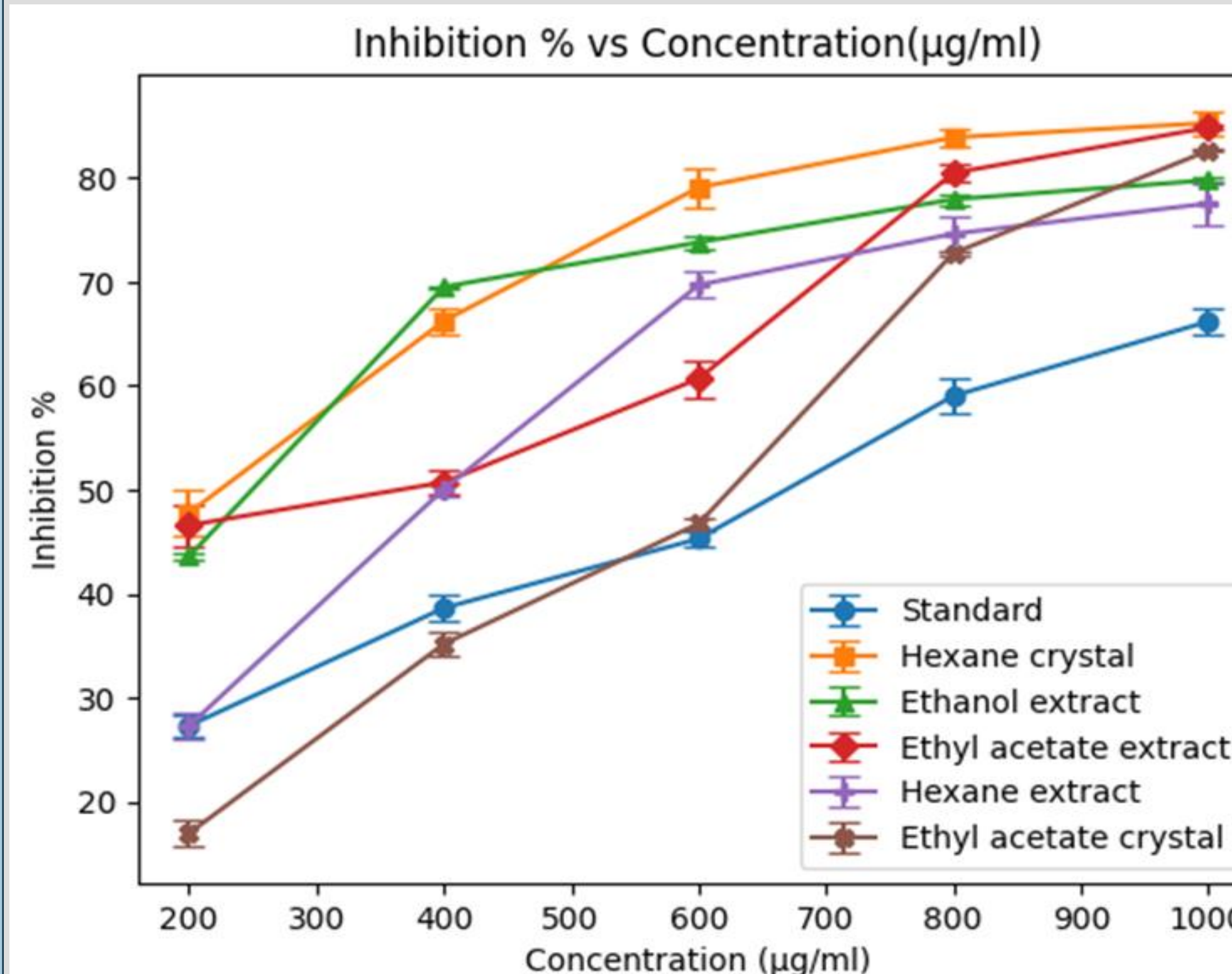


Samples	IC ₅₀ (µg/mL)
Standard/Aspirin	674.3±25.0
Hexane crystal fraction 1-10	222.51±3.59
Hexane extract fraction 43	243.17±12.90
Hexane extract fraction 17	314.79±11.95
Ethyl acetate extract fraction 25	519.71±24.01

Plant collection, pretreatment, and extraction

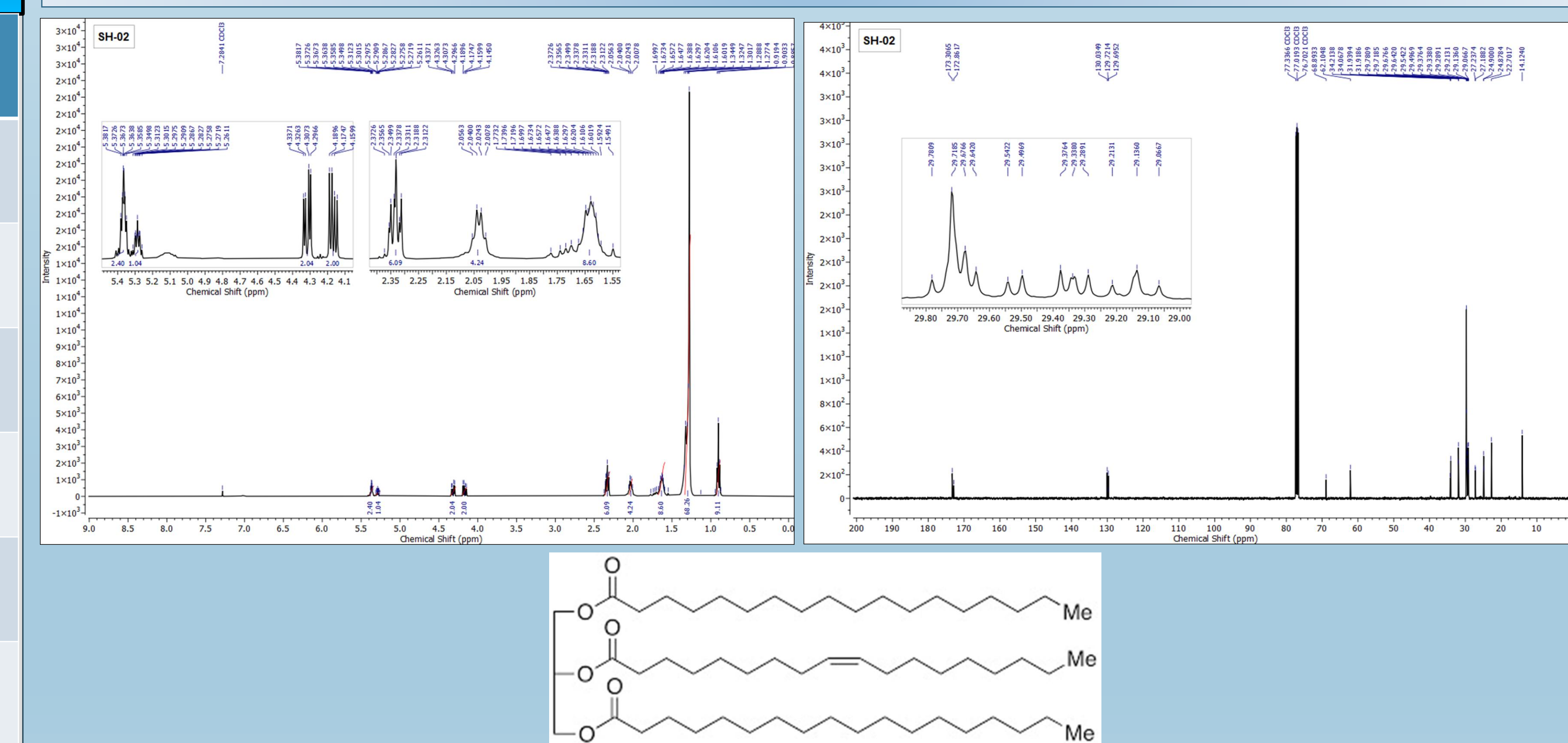


Results-Anti inflammatory activities of seed extracts



Samples	IC ₅₀ (µg/mL)
Standard/Aspirin	674.3±25.0
Hexane crystal	232.8±4.3
Ethanol extract	236.2±1.1
Ethyl acetate extract	302.3±3.5
Hexane extract	391.5±2.7
Ethyl acetate crystal	584.5±1.5

Results - Characterization of isolated compounds



References

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- Azab, A., Nassar, A., & Azab, A. N. (2016). Anti-inflammatory activity of natural products. *Molecules*, 21(10), 1321.
- Kapadia, P., Newell, A. S., Cunningham, J., Roberts, M. R., & Hardy, J. G. (2022). Extraction of high-value chemicals from plants for technical and medical applications. *International Journal of Molecular Sciences*, 23(18), 10334.