

Fig. 2: IR Spectra of *Shorea* Oils. FTIR spectras were obtained from 500 cm⁻¹ to 4000 cm⁻¹.

Individual sample was measured with 40 scans and overlayed with each other.

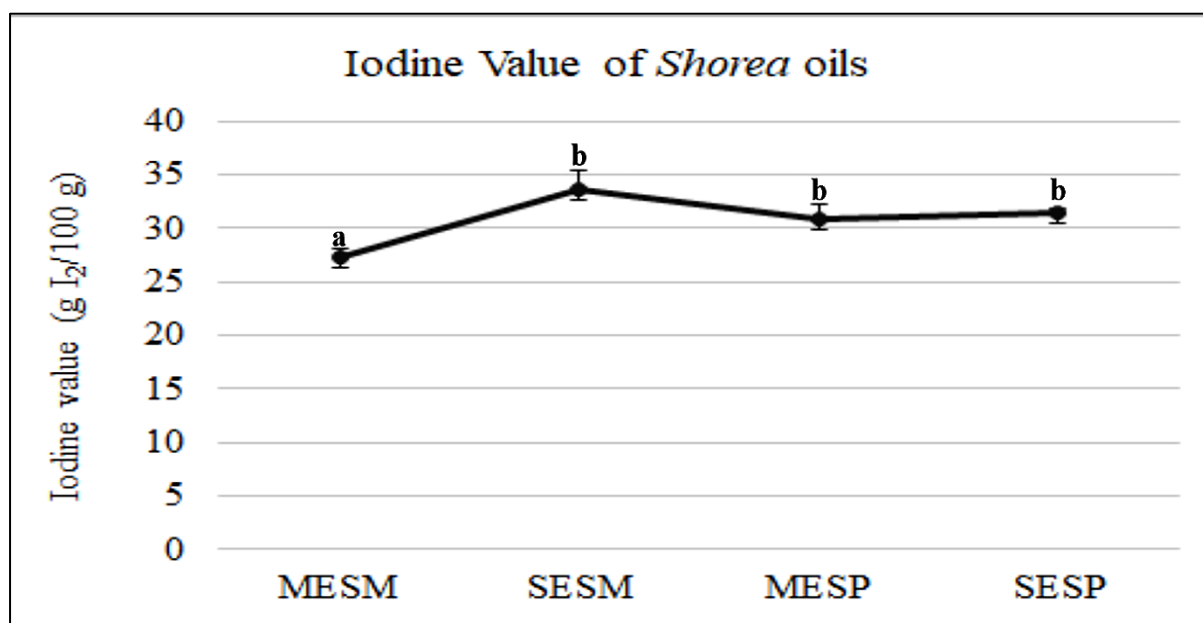


Fig. 3: IV of *S. macrophylla* and *S. palembanica* oils. The determination of IV was measured according to method Babiker et al. (2017). Mechanical extract *S. macrophylla* (MESM); Soxhlet extract *S. macrophylla* (SESM); Mechanical extract *S. palembanica* (MESP); and, Soxhlet extract *S. palembanica*. The data were shown as the mean value \pm S.D. for three independent experiments. Error bars represent standard deviation and the difference between mean average of each oil was determined using Tukey test at $p < 0.05$. Oils labelled with the same alphabet is not significantly different at 5% level.

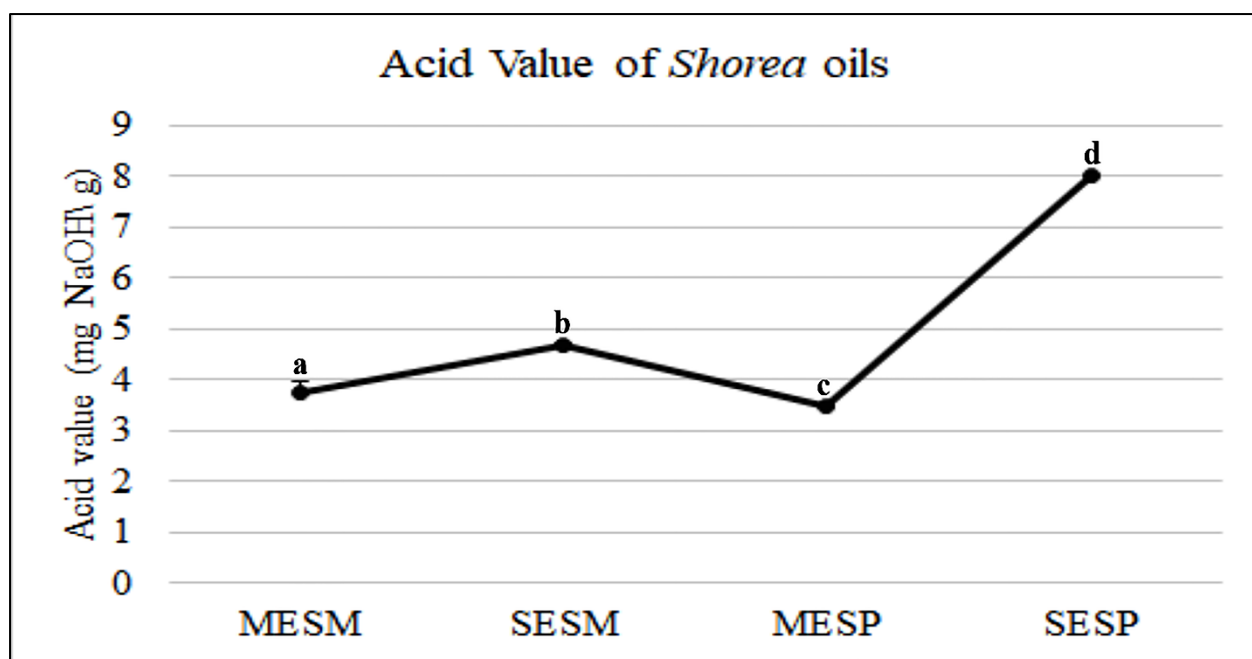


Fig. 4: AV of *S. macrophylla* and *S. palembanica* oils. The AV was determined according to standard method outlined by AOCS (1998). Mechanical extract *S. macrophylla* (MESM); Soxhlet extract *S. macrophylla* (SESM); Mechanical extract *S. palembanica* (MESP); and, Soxhlet extract *S. palembanica*. The data were expressed as the mean value \pm S.D. for three independent experiments. Error bars represent standard deviation and the difference between mean average of each oil was determined using Tukey test at $p < 0.05$. Oils labelled with the same alphabet is not significantly different at 5% level.

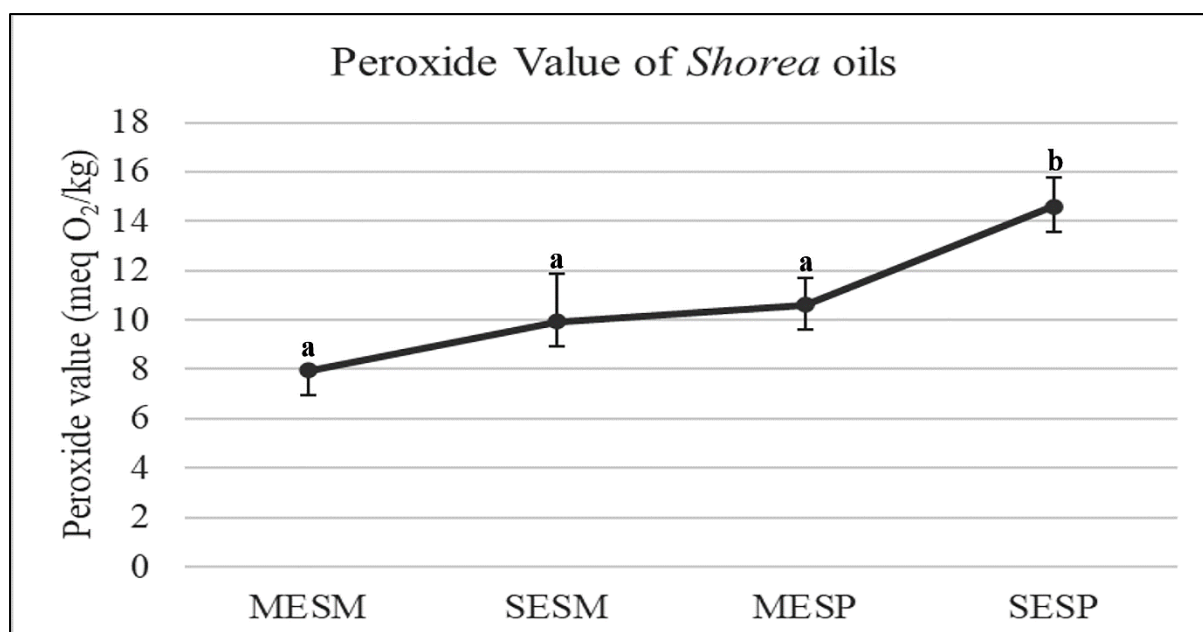


Fig. 5: PV of *S. macrophylla* and *S. palembanica* oils. The PV was determined according to method outlined by AOCS (2009). Mechanical extract *S. macrophylla* (MESM); Soxhlet extract *S. macrophylla* (SESM); Mechanical extract *S. palembanica* (MESP); and, Soxhlet extract *S. palembanica*. The data were expressed as the mean value \pm S.D. for three independent experiments. Error bars represent standard deviation and the difference between mean average of each oil was determined using Tukey test at $p < 0.05$. Oils labelled with the same alphabet is not significantly different at 5% level.

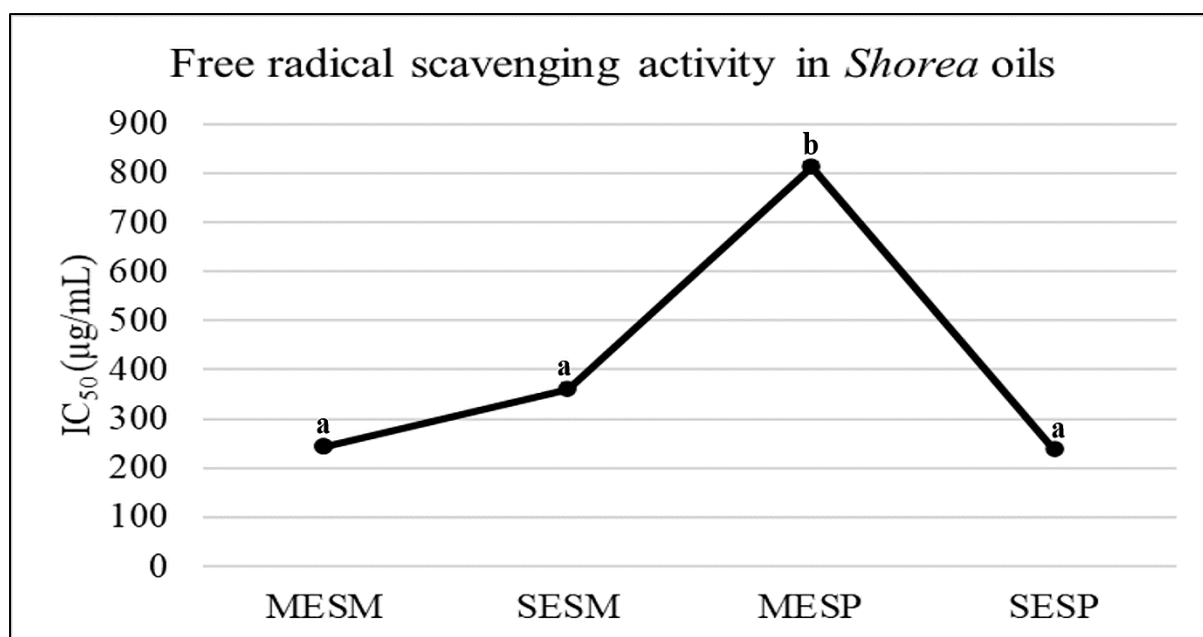


Fig. 6: Free radical scavenging activity of *S. macrophylla* and *S. palembanica* oils were determined according to method Wollinger et al. (2016). Mechanical extract *S. macrophylla* (MESM); Soxhlet extract *S. macrophylla* (SESM); Mechanical extract *S. palembanica* (MESP); and, Soxhlet extract *S. palembanica*. Ascorbic acid was used as standard and IC₅₀ for ascorbic acid is 2.44 µg/mL. The data were expressed as the mean value ± S.D. for three independent experiments. Error bars represent standard deviation and the difference between mean average of each oil was determined using Tukey test at $p < 0.05$. Oils labelled with the same alphabet is not significantly different at 5% level.

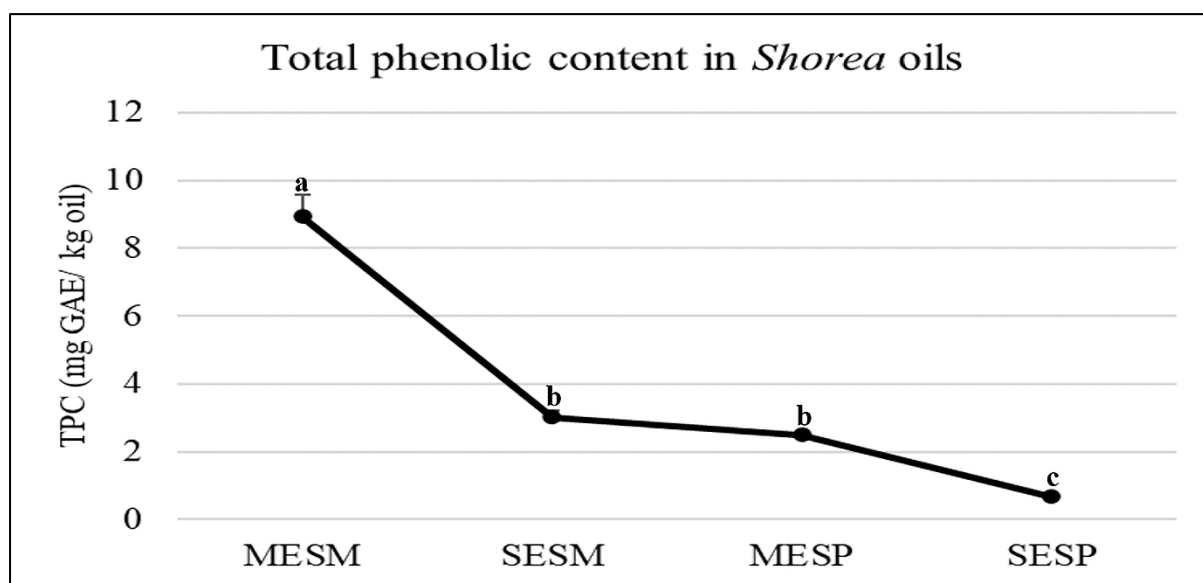


Fig. 7: TPC of *S. macrophylla* and *S. palembanica* oils. Level of phenolic in oils was determined according to method outlined by Kupina et al (2018) and gallic acid as standard. Mechanical extract *S. macrophylla* (MESM); Soxhlet extract *S. macrophylla* (SESM); Mechanical extract *S. palembanica* (MESP); and, Soxhlet extract *S. palembanica*. The data were expressed as the mean value \pm S.D. for three independent experiments. Error bars represent standard deviation and the difference between mean average of each oil was determined using Tukey test at $p < 0.05$. Oils labelled with the same alphabet is not significantly different at 5% level.