

# *Oxidative properties of Moringa oleifera kernel oil from different extraction methods during storage*

Article

Supplemental Material

Mat Yusoff, M., Niranjana, K. ORCID: <https://orcid.org/0000-0002-6525-1543>, Mason, O. A. and Gordon, M. H. (2020) Oxidative properties of Moringa oleifera kernel oil from different extraction methods during storage. *Journal of the Science of Food and Agriculture*, 100 (4). pp. 1588-1597. ISSN 1097-0010 doi: <https://doi.org/10.1002/jsfa.10167> Available at <https://centaur.reading.ac.uk/87755/>

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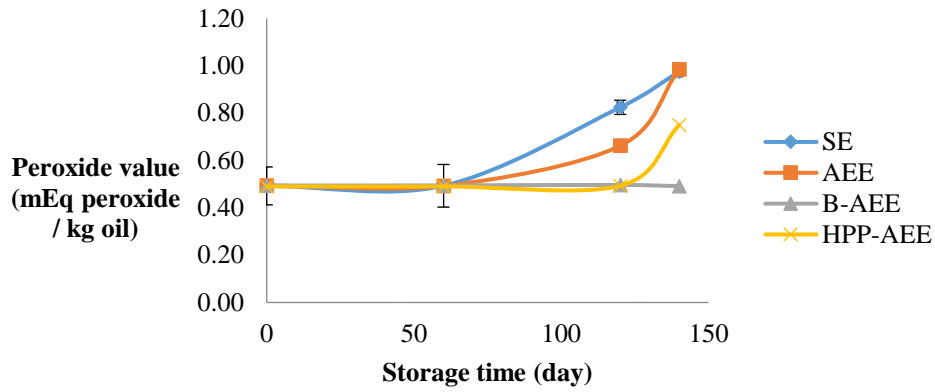
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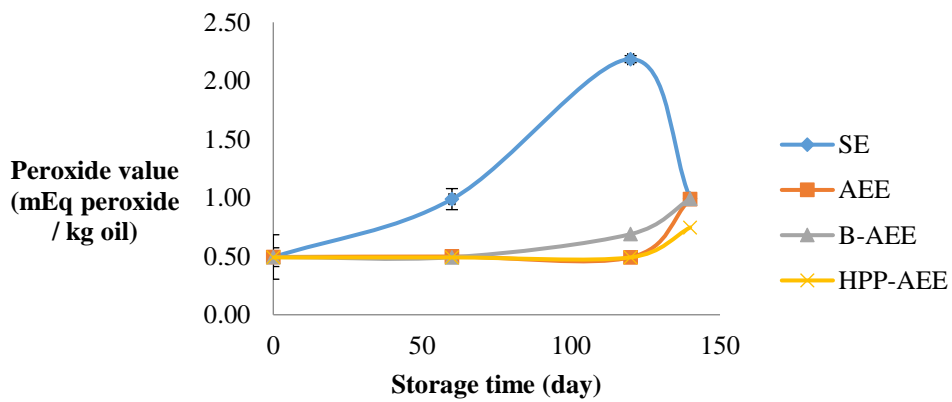
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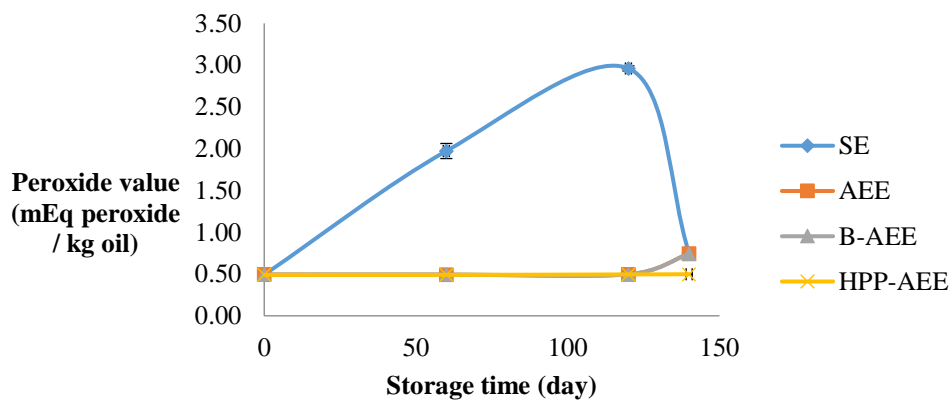
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(a) storage temperature = 13 °C

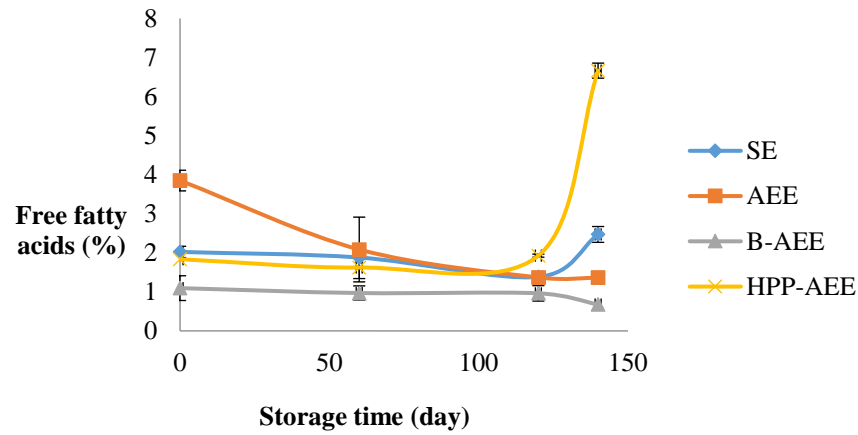


(b) storage temperature = 25 °C

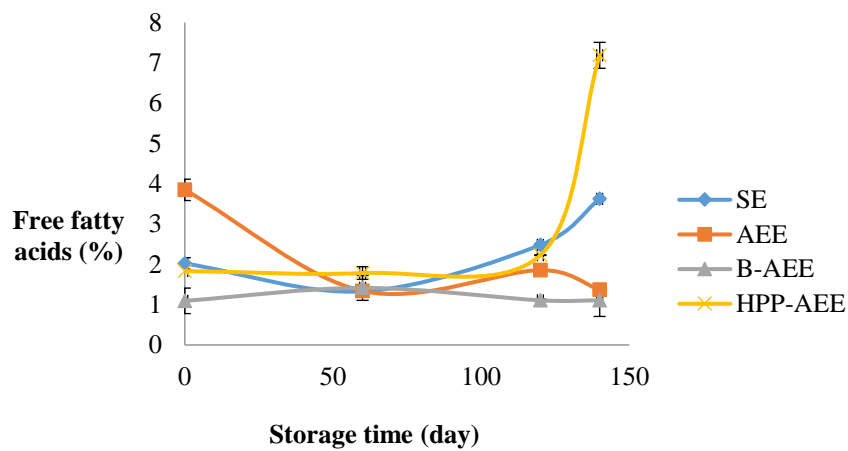


(c) storage temperature = 37 °C

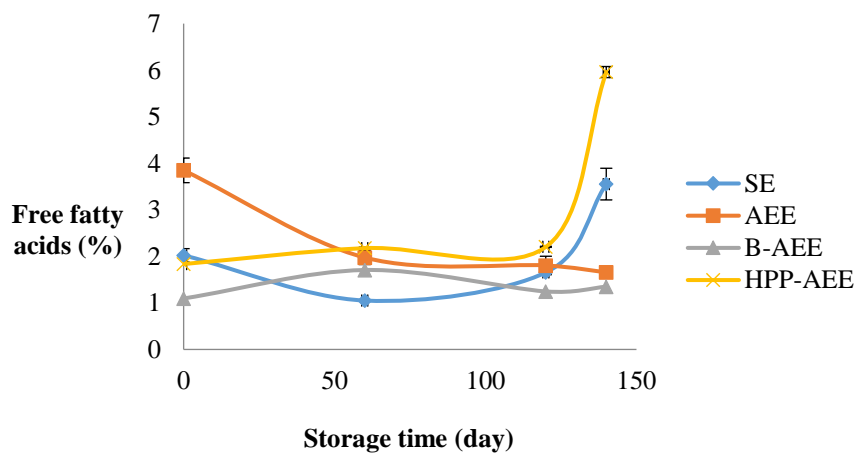
**Fig. 1.** Effect of different extraction methods on the peroxide values of *Moringa oleifera* kernel oil stored for 140 days at different temperatures of (a) 13 °C; (b) 25 °C; and (c) 37 °C. SE, solvent extraction; AEE, aqueous enzymatic extraction; B-AEE, aqueous enzymatic extraction with boiling pre-treatment; HPP-AEE, aqueous enzymatic extraction with high pressure processing pre-treatment.



(a) storage temperature = 13 °C

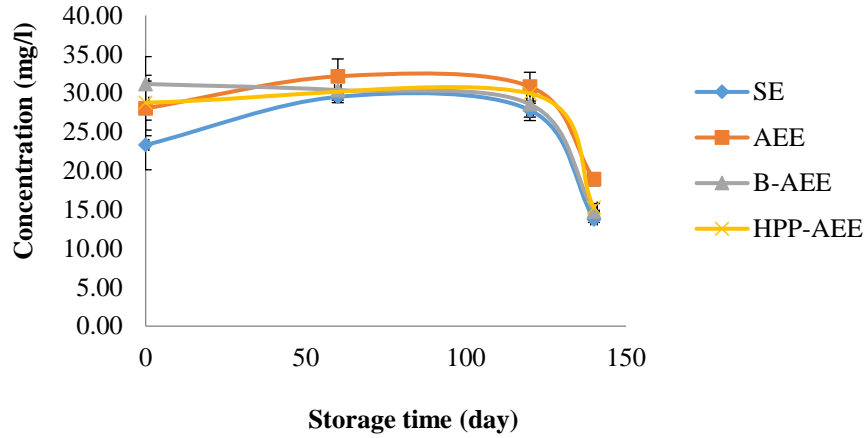


(b) storage temperature = 25 °C

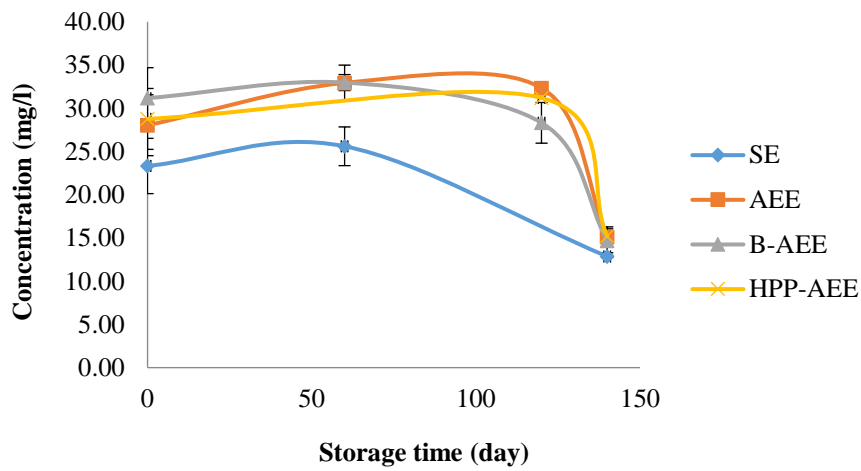


(c) storage temperature = 37 °C

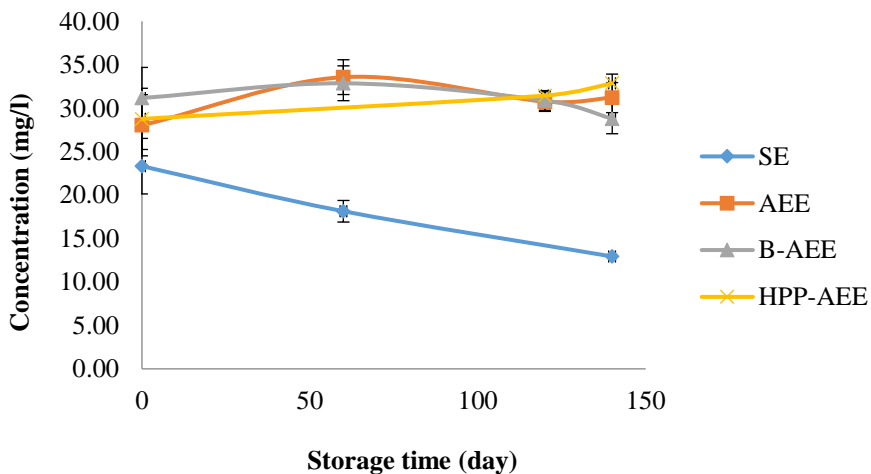
**Fig. 2.** Effect of different extraction methods on the free fatty acids of *Moringa oleifera* kernel oil stored for 140 days at different temperatures of (a) 13 °C; (b) 25 °C; and (c) 37 °C. SE, solvent extraction; AEE, aqueous enzymatic extraction; B-AEE, aqueous enzymatic extraction with boiling pre-treatment; HPP-AEE, aqueous enzymatic extraction with high pressure processing pre-treatment.



(a) storage temperature = 13 °C

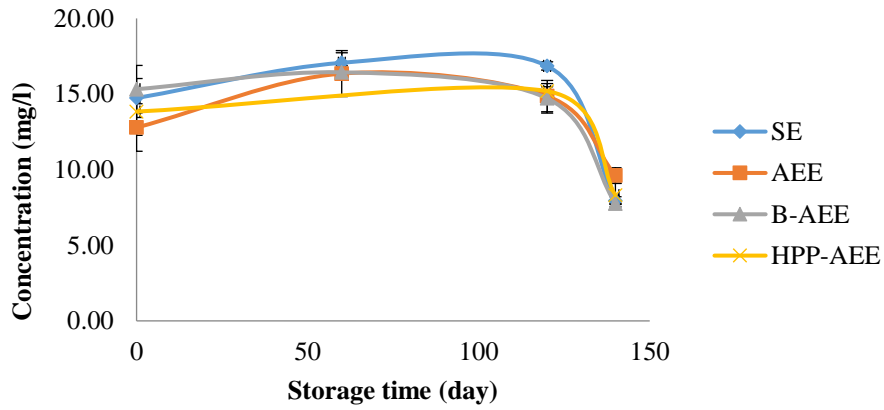


(b) storage temperature = 25 °C

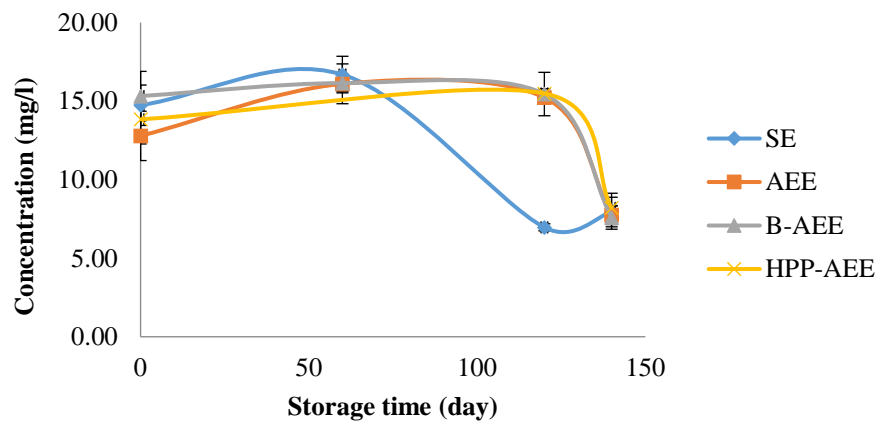


(c) storage temperature = 37 °C

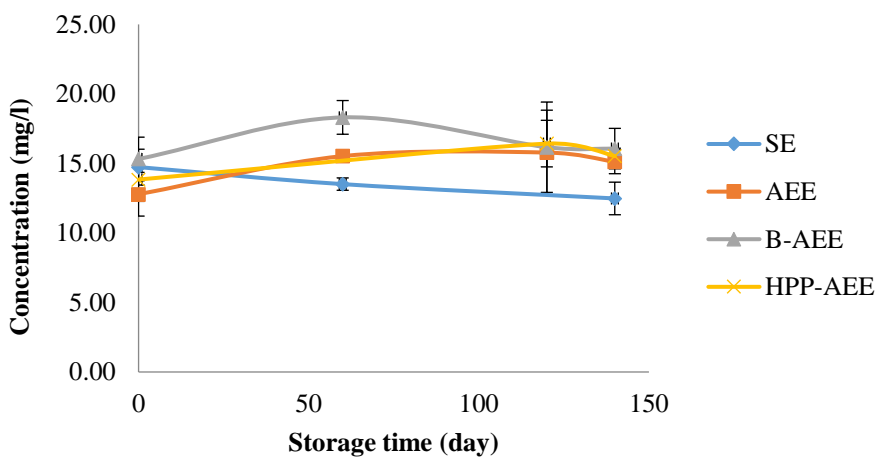
**Fig. 3.** Effect of different extraction methods on the alpha tocopherol content in *Moringa oleifera* kernel oil stored for 140 days at different temperatures of (a) 13 °C; (b) 25 °C; and (c) 37 °C. SE, solvent extraction; AEE, aqueous enzymatic extraction; B-AEE, aqueous enzymatic extraction with boiling pre-treatment; HPP-AEE, aqueous enzymatic extraction with high pressure processing pre-treatment.



(a) storage temperature = 13 °C



(b) storage temperature = 25 °C



(c) storage temperature = 37 °C

**Fig. 4** Effect of different extraction methods on the gamma tocopherol content in *Moringa oleifera* kernel oil stored for 140 days at different temperatures of (a) 13 °C; (b) 25 °C; and (c) 37 °C. SE, solvent extraction; AEE, aqueous enzymatic extraction; B-AEE, aqueous enzymatic extraction with boiling pre-treatment; HPP-AEE, aqueous enzymatic extraction with high pressure processing pre-treatment.