

**JABATAN KIMIA MALAYSIA
PROFICIENCY TESTING PROGRAMME**

**KATEST 3-19
Year 2019**

**Free Fatty Acid, Iodine Value and Slip Melting Point
in Edible Oils**

KIMIA PT Report No. 4/2019

May 2019

Jabatan Kimia Malaysia

Jalan Sultan

46661 Petaling Jaya, Selangor

MALAYSIA

Tel: 603-79853000

Fax: 603-79853014

<http://ptos.kimia.gov.my>

ACKNOWLEDGEMENTS

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We would like to thank the management and staff of the participating laboratories for their support towards this programme.

Approved signatory,

Li Hui Ling

Head of Proficiency Testing Section
Chemical Metrology Division
Department of Chemistry Malaysia
46661 Petaling Jaya
Selangor
MALAYSIA

Tel: 603-79853163

Fax: 603-79853014

Email: lhling@kimia.gov.my

This report was authorized by
Director of Chemical Metrology Division
Khairul Anuar bin Abdul Aziz
Date: 16th May 2019

SUMMARY

This proficiency testing programme was conducted in March – April 2019. A total of fifty-eight (58) participants from laboratories in Malaysia participated in this PT scheme. One PT item labelled as KATEST 3-19 “Item A” was dispatched to the participating laboratories and 57 out of 58 had submitted their results.

Results for this study are summarised as follows:

PT Item	Testing Parameter	Assigned value	Expanded Uncertainty	Number of scores, $ z \leq 2.0$	Total number of responses	% $ z \leq 2.0$
Item A	Iodine Value	56.20	0.34	55	57	96.5
	Slip Melting Point (°C)	22.5	0.2	46	47	97.9
	Free Fatty Acid (%)	1.193	0.008	41	41	100

The expanded uncertainties are based on an estimated confidence probability of not less than 95% and have a coverage factor of $k = 2$