

**JABATAN KIMIA MALAYSIA  
PROFICIENCY TESTING PROGRAMME**

**FODAS 19-19  
Year 2019**

**Organophosphorous Pesticides in Mustard**

**KIMIA PT Final Report No. 20/2019**

December 2019



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## ACKNOWLEDGEMENTS

This proficiency testing programme was conducted by Quality Management and Research Centre in collaboration with Pesticide Analysis Reference Centre of Department of Chemistry Malaysia Perak State.

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

Approved signatory,

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Date: 5<sup>th</sup> December 2019

## SUMMARY

This proficiency testing programme was conducted in October-November 2019. A total of thirty-five (35) participants from laboratories in Malaysia participated in this PT scheme. A set of two PT items labelled as FODAS 19-19 “Unspiked” and “Item A” was dispatched to the participating laboratories and 31 participants had submitted their results.

Results for this study are summarised as follows:

| PT Item | Testing Parameter | Assigned value (mg/kg)  | Expanded Uncertainty (mg/kg) | Number of scores, $ z  \leq 2.0$ | Total number of responses | % $ z  \leq 2.0$ |
|---------|-------------------|---|------------------------------|----------------------------------|---------------------------|------------------|
| Item A  | Chlorpyrifos      | 0.651   | 0.094                        | 28                               | 30                        | 93               |
|         | Diazinon          | 0.379   | 0.056                        | 23                               | 25                        | 92               |
|         | Dimethoate        | 0.442   | 0.098                        | 15                               | 18                        | 83               |
|         | Malathion         | 0.962   | 0.214                        | 18                               | 24                        | 75               |
|         | Profenofos        | 0.407   | 0.146                        | 11                               | 18                        | 61               |
|         | Sulfotep          | 0.687   | 0.292                        | 8                                | 13                        | 62               |
|         | Ethoprophos       | 0.674   | 0.136                        | 8                                | 8                         | 100              |
|         | Fenthion          | No evaluation due to unavailability of homogeneity and stability data |                              |                                  |                           |                  |

*The expanded uncertainties are based on coverage factor,  $k = 2$  for 95% confidence level.*