

**JABATAN KIMIA MALAYSIA
PROFICIENCY TESTING PROGRAMME**

**FODAS 11-19
Year 2019**

**Calcium, Moisture, Ash, Total Fat, Protein and Carbohydrate in Milk
Powder**

KIMIA PT Report No. 5/2019

May 2019



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ACKNOWLEDGEMENTS

This proficiency testing programme was conducted by Quality Management and Research Centre in collaboration with Food Quality Division of Department of Chemistry Malaysia, Petaling Jaya.

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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This report was authorized by
Director of Chemical Metrology Division
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Date: 30th May 2019

SUMMARY

This proficiency testing programme was conducted in April - May 2019. A total of fifty-four (54) participants from laboratories in Malaysia participated in this PT scheme. One PT item labelled as FODAS 11-19 "Item A" was dispatched to the participating laboratories and only 52 participants 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	Calcium	584.65 mg/100g	22.92 mg/100g	28	34	82.3
	Moisture	3.02%w/w	0.14%w/w	36	52	69.2
	Ash	3.68%w/w	0.04%w/w	45	46	97.8
	Total Fat	14.68%w/w	0.22%w/w	37	48	77.1
	Protein	15.99%w/w	0.28%w/w	35	46	76.1
	Carbohydrate	62.70%w/w	0.60%w/w	41	44	93.2

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