

Proficiency Testing Program  
Organised by  
Center for Laboratory Proficiency Testing,  
Department of Science Service,  
Ministry of Higher Education, Science, Research and Innovation, Thailand  
Moisture, Protein, Crude fat, Crude fiber and Ash in Feeding stuffs  
PTFF - FA01 - 2001  
29 July 2020

**SUMMARY SHEET**

Laboratory Name : Technical Training and Support Service, Center for Scientific and Technological Equipment, Walailak University

Laboratory Code : FA01 - 2001 - 100

Test items (g/100g)	Number of results	Assigned value ( $x_{pt}$ )	Standard deviation for proficiency assessment ( $\sigma_{pt}$ )	Lab's result		z - score
				Value	MU	
Moisture, Temp. (103±2)°C	51	8.08	0.40	-	-	-
Moisture, Temp. (135±2)°C	83	9.70	0.54	9.07	-	-1.17
Protein (N x 6.25)	104	21.43	0.43	21.75	-	0.74
Crude fat (solvent extraction)	84	3.40	0.20	-	-	-
Crude fat (solvent extraction after acid hydrolysis)	32	3.92	0.63	-	-	-
Crude fiber	86	7.43	1.11	7.82	-	0.35
Ash	100	5.86	0.15	5.94	-	0.53

**Note**

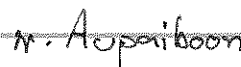
- Assigned values ( $x_{pt}$ ) are the robust averages of the participant results in this round, calculated by using Algorithm A (ISO 13528: 2015).
- Standard deviations for proficiency assessment ( $\sigma_{pt}$ )
  - For Moisture; are the robust standard deviations of the participant results in this round, calculated by using Algorithm A (ISO 13528: 2015).
  - For Protein, Crude fat, Crude fiber and Ash; are the target standard deviations by perception from expert judgement.
- MU are measurement uncertainties at 95% confidence level.
- Each z-score marked with "A" is an outlier ( $|z| \geq 3.0$ ). Therefore, laboratory which is marked with "A" shall investigate the result. Laboratory is also encouraged to review the result which has an absolute z-score value between two and three ( $2.0 < |z| < 3.0$ ) marked with "W".
- This summary sheet shall be read in conjunction with the final report.

Reported by



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Approved by



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