

Proficiency Testing Program
Organised by
Center for Laboratory Proficiency Testing
Department of Science Service,
Ministry of Higher Education, Science, Research and Innovation, Thailand
Ca, Cu, Fe, Mg, Mn, K, Na, Zn and P in Feeding stuffs
PTFF - FA02 - 2001
16 April 2020
SUMMARY SHEET

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

Laboratory Code : FA02 - 2001 - 033

Test Items	Number of results	Assigned value (x_{pt})	Standard deviation for proficiency assessment (σ_{pt})	Lab's result		z - score
				Value	MU	
Ca (g/100g)	50	3.087	0.309	3.064	-	-0.07
Cu (mg/kg)	37	12.8	2.6	14.3	-	0.58
Fe (mg/kg)	37	438	88	444	-	0.07
Mg (g/100g)	33	0.170	0.017	0.163	-	-0.41
Mn(mg/kg)	36	113	17	111	-	-0.12
K (g/100g)	32	0.593	0.089	0.514	-	-0.89
Na (g/100g)	32	0.312	0.031	0.332	-	0.65
Zn (mg/kg)	36	146	15	142	-	-0.27
P (g/100g)	47	1.748	0.210	1.693	-	-0.26

Note

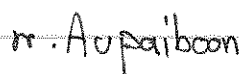
- Assigned values (x_{pt}) are the robust averages of the participant results in this round, calculated by using Algorithm A (ISO 13528: 2015).
- Standard deviations for proficiency assessment (σ_{pt})
 - For Ca, Cu, Fe, Mg, Mn, K, Na and Zn the target standard deviations by perception from expert judgement.
 - For P the standard deviation is the target standard deviation by perception from the standard method (ISO 6491: 1998).
- MU are measurement uncertainty 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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