



SUMMARY SHEET

PTOF-0463



final report

2020 Proficiency Testing Program of Chemical Properties in Organic Fertilizer
Organized by System Research of Soil and Water Quality Sub-group,
Agricultural Chemistry Group,
Agricultural Production Sciences Research and Development Division,
Department of Agriculture

Report No: 01/2020

Participant (TH) : ศูนย์เครื่องมือวิทยาศาสตร์และเทคโนโลยี มหาวิทยาลัยวลัยลักษณ์

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Participant ID: 63-OF-30

Parameters	No. of reported results	Reported mean result	z-score	Assigned values (x_{pt})	Standard Deviations for Proficiency assessment (σ_{pt})
Organic matter (%)	53	21.24	0.89	20.77	0.53
Total nitrogen (%)	52	1.89	0.93	1.76	0.14
Total phosphorus, as P_2O_5 (%)	48	6.30	0.42	6.22	0.19
Total potassium, as K_2O (%)	49	1.88	-1.31	2.05	0.13

Note:

1. Assigned values are calculated from the results reported by participants in this round, according to Algorithm A (ISO 13528: 2015) while total phosphorus is determined by the system research of fertilizer quality sub-group, Department of Agriculture.

2. Standard deviations for proficiency assessment (σ_{pt})

Organic matter and total phosphorus are the predicted standard deviations calculated from the predicted relative standard deviation of reproducibility (AOAC, 2016).

Total nitrogen is calculated from the results of participants in this round, according to Algorithm A (ISO 13528: 2015).

Total potassium is the target standard deviation by perception from expert judgment.

3. Laboratory whose z-score marked with "A" means unacceptable result ($|z\text{-score}| \geq 3$) and z-score marked with "W" means warning result ($2 < |z\text{-score}| < 3$). Laboratory shall review and investigate result.

4. This summary sheet shall be read in conjunction with the final report, available at <https://forms.gle/W6juCt2L8RRBaWcr9>

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System research of soil and water quality sub-group
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