

Proficiency Testing Program  
Organised by  
Center for Laboratory Proficiency Testing  
Department of Science Service,  
Ministry of Higher Education, Science, Research and Innovation, Thailand

Standard solution:  
Hydrochloric acid (HCl) and Ethylenediaminetetraacetic acid (EDTA)

PTCH - SS02 - 2001

2 April 2020

### SUMMARY SHEET

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

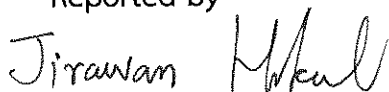
Laboratory Code : SS02 - 2001 - 026

Test items	Number of results	Assigned value ( $X_{pt}$ )	Standard deviation for proficiency assessment ( $\sigma_{pt}$ )	Lab's result	MU	z-score
HCl (M)	53	0.0991	0.0050	0.0981	-	-0.20
EDTA (M)	47	0.0080	0.0004	0.0079	-	-0.25

**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 ( $\sigma_{pt}$ ) are the target standard deviations by perception from expert judgement.
- MU is 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 result. Laboratory is also encouraged to review result which has an absolute z-score value between two and three ( $2.0 < |z| < 3.0$ ) or marked with "W".
- This summary sheet should be read in conjunction with the final report.

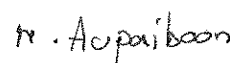
Reported by



(Miss Jirawan Hunwattanakul)

Program Coordinator

Approved by



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Head of Center for Laboratory Proficiency Testing  
Department of Science Service