



**HEAVY METALS
IN SEAWATER SHRIMP
PROFICIENCY TESTING
PROGRAMME**

APLAC T057

FINAL REPORT

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Summary of Results

- 1.1. The proficiency testing programme (APLAC T057) aiming at evaluating the quantitative analysis of heavy metals (namely total arsenic, cadmium and lead) in seawater shrimp.
- 1.2. APLAC T057 was organised by the Hong Kong Government Laboratory (HKGL), in collaboration with Hong Kong Accreditation Service (HKAS), under the auspices of the Asia-Pacific Laboratory Accreditation Co-operation (APLAC).
- 1.3. A total of 102 laboratories from 37 different economies participated, 97 participants submitted the results on or before the deadline.
- 1.4. Results of APLAC T057 are as follows:

	Total Arsenic	Cadmium	Lead
No. of data submitted	75	97	91
No. of data for evaluation	74	92	87
Assigned Value (mg/kg)	60.0	0.187	1.195
Standard Deviation (mg/kg)	5.16	0.041	0.416

- 1.5. Performance in terms of z-score:

Performance Achieved	Number of Participants (percentage)		
	Total Arsenic	Cadmium	Lead
$ z \leq 2$	43 (58.1 %)	78 (84.8 %)	76 (87.4 %)
$2 < z < 3$	6 (8.1 %)	6 (6.5 %)	3 (3.4 %)
$ z \geq 3$ (Outliers)	25 (33.8 %)	8 (8.7 %)	8 (9.2 %)