

INORGANIC ARSENIC IN AQUATIC PRODUCT



**PROFICIENCY TESTING
PROGRAMME**

GLHK PT 20-03

FINAL REPORT SUMMARY

23 April 2021



Government Laboratory of Hong Kong
Proficiency Testing Programme (GLHK PT 20-03)
Inorganic Arsenic in Aquatic Product

Summary of Results

1. This proficiency testing programme (GLHK PT 20-03) was organised by the Government Laboratory of Hong Kong (GLHK) with the support from the Hong Kong Council for Testing and Certification (HKCTC). The main objective of the proficiency testing programme is to provide a platform to evaluate the testing capability of laboratories in analysing inorganic arsenic in aquatic product.
2. A total of 8 laboratories enrolled in the programme and all of them returned the analytical results to the organiser on or before the deadline of result submission.
3. The mass fraction of inorganic arsenic determined by GLHK using ion chromatography – inductively coupled plasma mass spectrometry with gravimetric standard additions was used as the assigned value for proficiency assessment (x_{pt}). The standard deviation for proficiency assessment (σ_{pt}) was derived from the Horwitz equation. The performance of the participants will be evaluated using z-scores.
4. The z-scores of the participants are summarized as follows:-

z-Score	Number of participants (Percentage)
$ z \leq 2.0$	7 (87.5%)
$2.0 < z < 3.0$	1 (12.5%)
$ z \geq 3.0$	0 (0%)
Total :	8 (100%)