

**INORGANIC ARSENIC IN
AQUATIC PRODUCT**

**PROFICIENCY TESTING
PROGRAMME**

GLHK PT 18-03

FINAL REPORT

27 February 2019

---Blank Page---



Government Laboratory of Hong Kong
Proficiency Testing Programme (GLHK PT 18-03)
Inorganic Arsenic in Aquatic Product

Summary of Results

1. This proficiency testing programme (GLHK PT 18-03) was organised by the Government Laboratory of Hong Kong (GLHK) and aimed at providing a platform to evaluate the testing capability of laboratories in analysing inorganic arsenic [sum of inorganic arsenic (III) and (V)] in aquatic product.
2. A total of 10 laboratories in Hong Kong enrolled in the programme and nine of them returned the analytical results to the organiser. One participant submitted its result in “total arsenic” concentration and the value was excluded from the evaluation of laboratory performance.
3. The assigned value was obtained by extraction of sample with dilute nitric acid at elevated temperature and analysing the extract by Gravimetric Standard Addition - Ion Chromatography - Inductively Coupled Plasma Mass Spectrometry technique by GLHK. The standard deviation for proficiency assessment was derived from the Horwitz Equation. Individual laboratory performance was expressed in terms of 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%)
$2.0 < z < 3.0$	(0%)
$ z \geq 3.0$	1 (12.5%)
Total :	8 (100%)