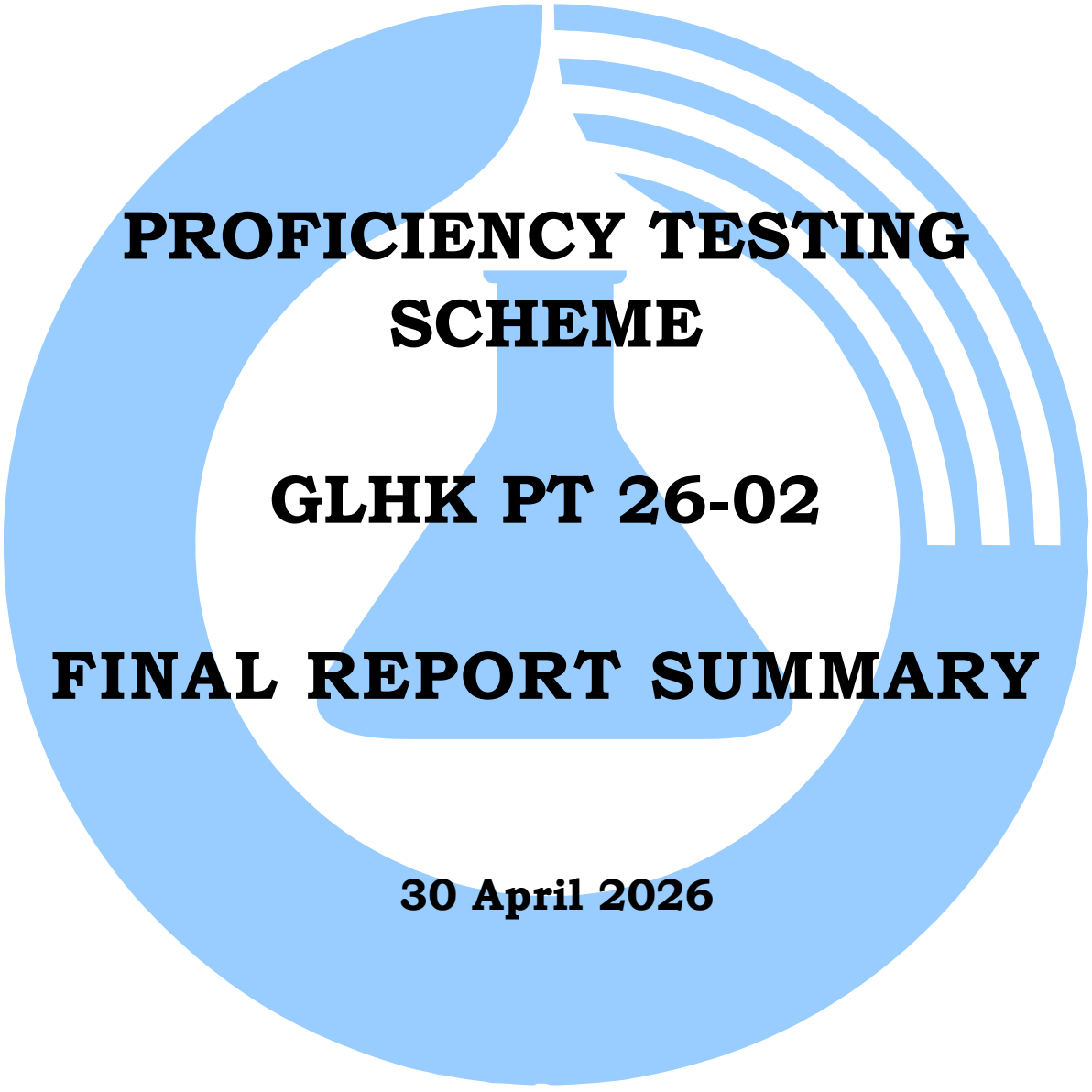


PROPIONIC ACID IN FLOUR CONFECTIONERY



**PROFICIENCY TESTING
SCHEME**

GLHK PT 26-02

FINAL REPORT SUMMARY

30 April 2026



Government Laboratory
Proficiency Testing Scheme (GLHK PT 26-02)
Propionic Acid in Flour Confectionery

Summary of Results

1. This proficiency testing (PT) scheme (GLHK PT 26-02) was organised by the Government Laboratory of the Government of the Hong Kong Special Administrative Region (GLHK) and aimed at providing a platform to evaluate the testing capability of participating laboratories in analysing propionic acid in flour confectionery.
2. A total of 9 laboratories in Hong Kong enrolled in the PT scheme and all of them returned the analytical results to the organiser on or before the deadline for result submission.
3. The assigned value was determined by the GLHK using isotope dilution gas chromatography-tandem mass spectrometry. The standard deviation for proficiency assessment was derived from the Horwitz Equation. The performance of individual laboratory was expressed in terms of z' scores.
4. The z-scores of the participants are summarised as follows:

z' score	Number of participants (Percentage)
$ z' \leq 2.0$	9 (100%)
$2.0 < z' < 3.0$	0 (0%)
$ z' \geq 3.0$	0 (0%)
Total:	9 (100%)