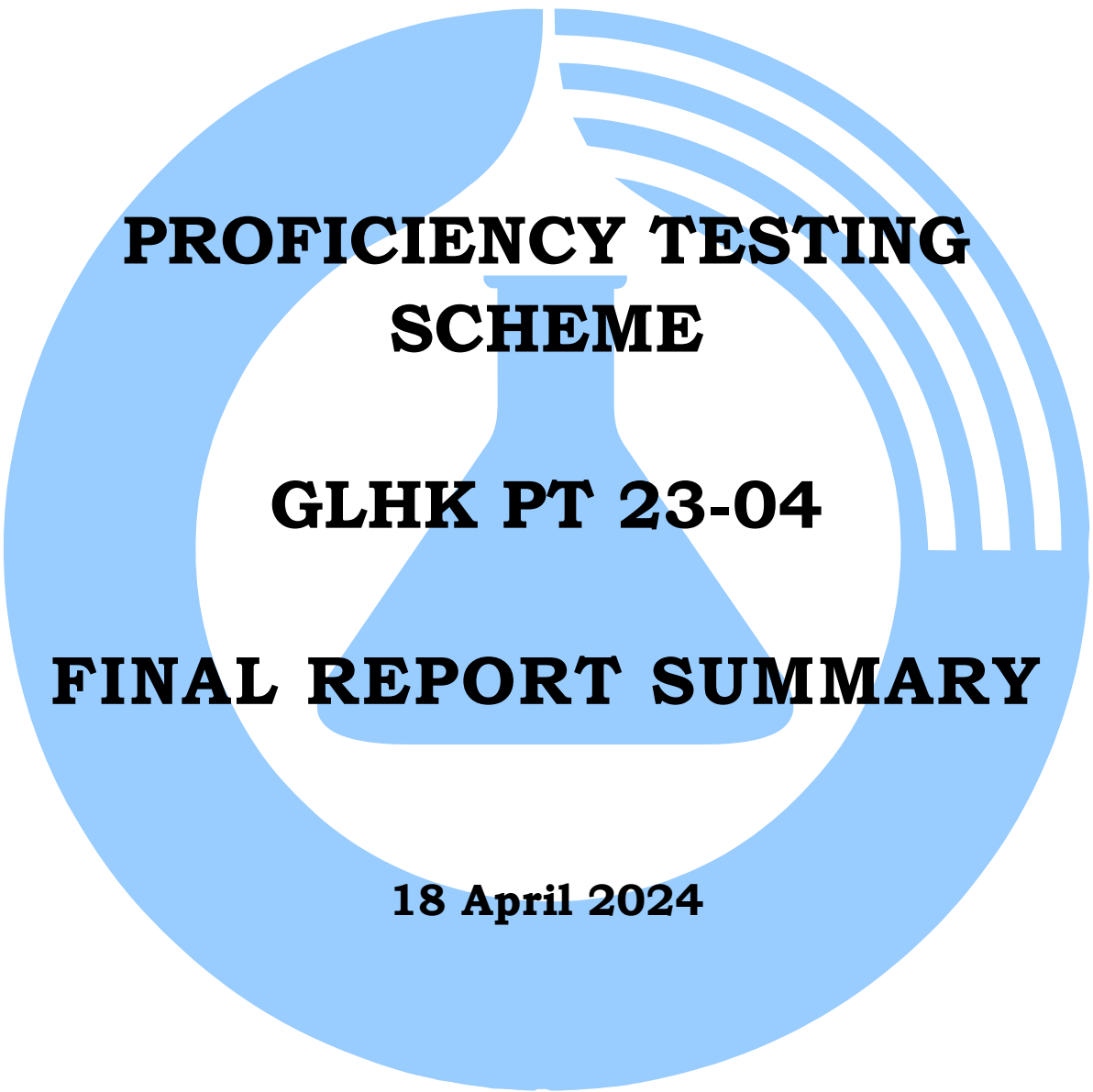


**CHEMICAL MARKERS IN  
CHINESE MEDICINAL OIL**



**PROFICIENCY TESTING  
SCHEME**

**GLHK PT 23-04**

**FINAL REPORT SUMMARY**

**18 April 2024**



Government Laboratory  
Proficiency Testing Scheme (GLHK PT 23-04)  
Chemical Markers in Chinese Medicinal Oil

## Summary of Results

1. This proficiency testing (PT) scheme (GLHK PT 23-04) was organised by the Government Laboratory of the Government of the Hong Kong Special Administrative Region (GLHK) with the support from the Hong Kong Council for Testing and Certification (HKCTC). The main objective of the PT scheme is to provide a platform to evaluate the testing capability of participating laboratories in analysing chemical markers in Chinese medicinal oil.
2. A total of 10 laboratories in Hong Kong enrolled in the PT scheme and 9 of them returned their analytical results to the organiser on or before the deadline for the result submission.
3. The assigned value was derived from the robust average of participants' results. The standard deviations for proficiency assessment were derived from the robust standard deviation. The performance of individual laboratory was expressed in terms of z-scores.
4. The z-scores of the participants are summarised as follows:

Chemical Marker	Number of Participants (Percentage)			Total Number of Participants
	$ z  \leq 2.0$	$2.0 <  z  < 3.0$	$ z  \geq 3.0$	
$\alpha$ -Pinene	9 (100%)	--	--	9
Eucalyptol	9 (100%)	--	--	9
Camphor	9 (100%)	--	--	9
Menthol	8 (89%)	--	1 (11%)	9
Methyl Salicylate	8 (89%)	--	1 (11%)	9