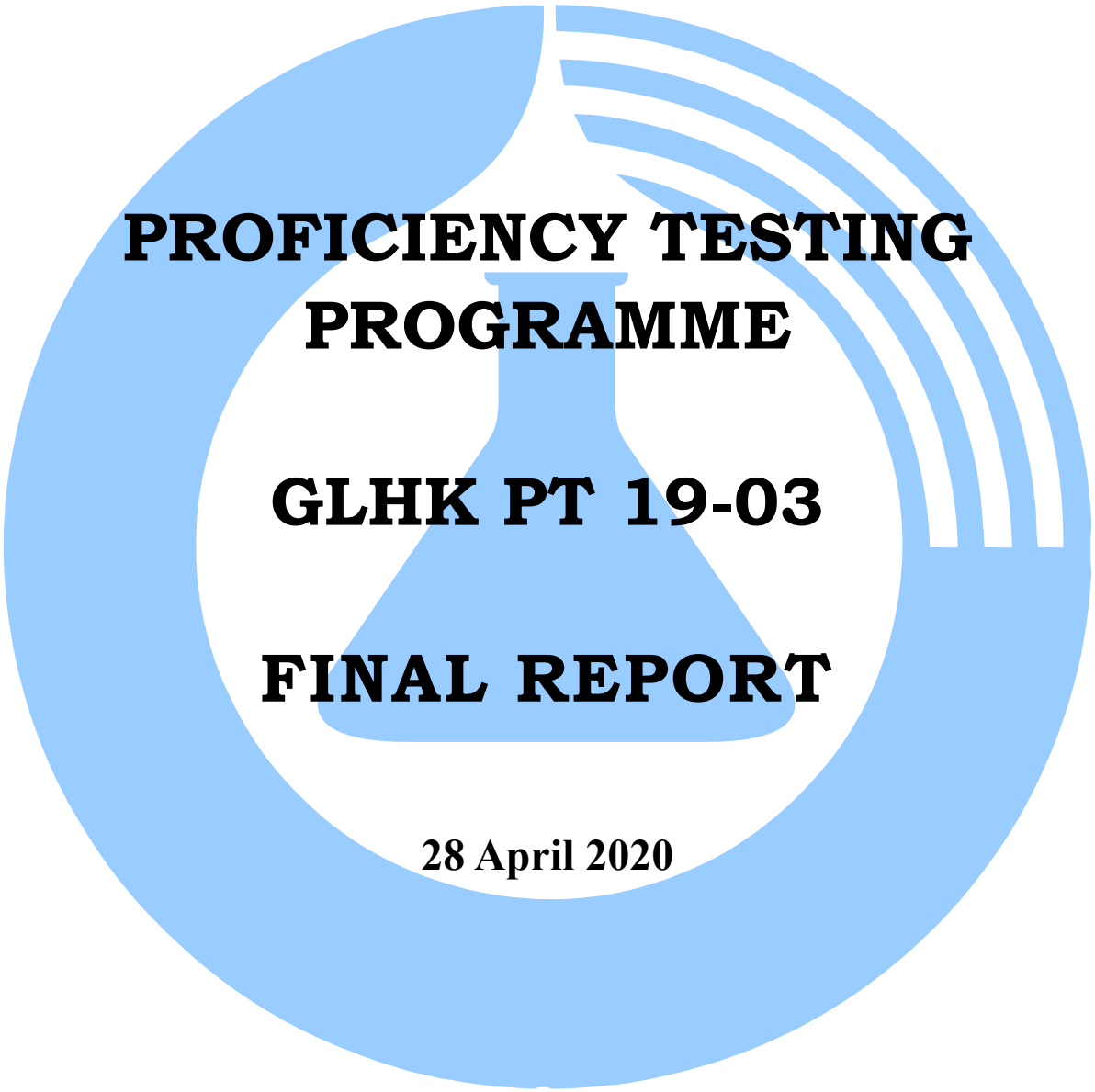
CHEMICAL MARKERS IN CHINESE MEDICINAL OIL



PROFICIENCY TESTING PROGRAMME

GLHK PT 19-03

FINAL REPORT

28 April 2020

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Government Laboratory of Hong Kong
Proficiency Testing Programme (GLHK PT 19-03)
Chemical Markers in Chinese Medicinal Oil

Summary of Results

1. This proficiency testing programme (GLHK PT 19-03) 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 participating laboratories in analysing chemical markers in Chinese medicinal oil.

2. A total of 12 laboratories enrolled in the programme and 10 of them returned the analytical results to the organiser on or before the deadline of result submission. Participants were requested to determine the concentration of five chemical marker(s) in the Chinese medicinal oil.

3. The assigned values were derived from the robust analysis of participants' results. The standard deviation(s) for proficiency assessment were derived from the robust standard deviation. Individual laboratory performance was expressed in terms of z-scores.

4. The z-scores of the participants are summarized as follows:

Chemical Marker	**Number of participants (Percentage)**			**Total participants**
	$\lvert z\rvert \leq 2.0$	$2.0 < \lvert z\rvert < 3.0$	$\lvert z\rvert \geq 3.0$	
α-Pinene	8 (89%)	--	1 (11%)	9
Eucalyptol	8 (89%)	--	1 (11%)	9
Camphor	8 (89%)	--	1 (11%)	9
Menthol	9 (90%)	--	1 (10%)	10
Methyl Salicylate	8 (89%)	--	1 (11%)	9