



# Accreditation Service for Food Testing

## 食品測試的認可服務



Dr. C. W. Ho

Hong Kong Accreditation Service



# 香港認可處 (HKAS)

HKAS is part of Innovation and Technology Commission of the Hong Kong Special Administration Region (HKSAR) Government.  
香港認可處是香港特別行政區政府創新科技署屬下工作組別



It was set up in 1998 (previously known as HOKLAS since 1985)於1998年成立(前身是香港實驗所認可計劃HOKLAS執行機關，於1985年成立)

It is the official accreditation body in Hong Kong  
是香港官方認可機構

It provides independent and impartial accreditation services  
提供獨立和公正的認可服務

- ✦ 香港認可處透過 3 個認可計劃，向實驗所、認證機構及檢驗機構提供認可服務：



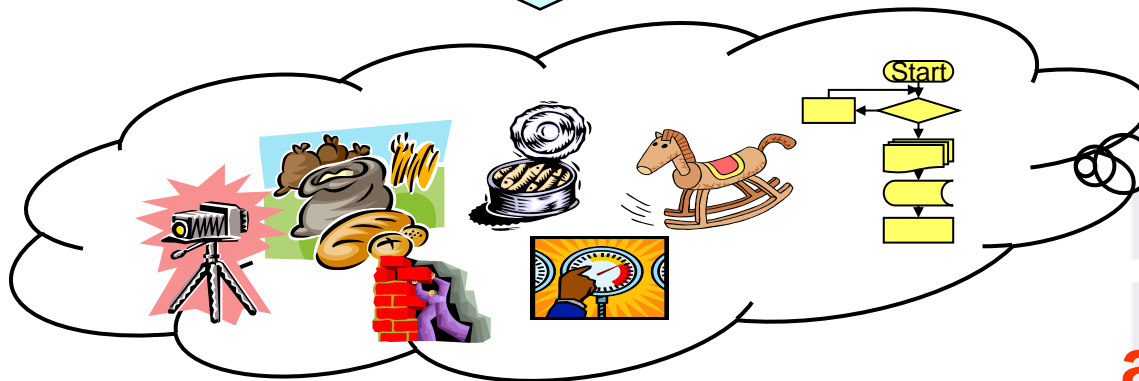
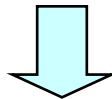
- HOKLAS (香港實驗所認可計劃)
- HKCAS (香港認證機構認可計劃)
- HKIAS (香港檢驗機構認可計劃)

- ✦ 3 個計劃均屬自願性參與
- ✦ 3 個認可計劃都是根據國際標準運作



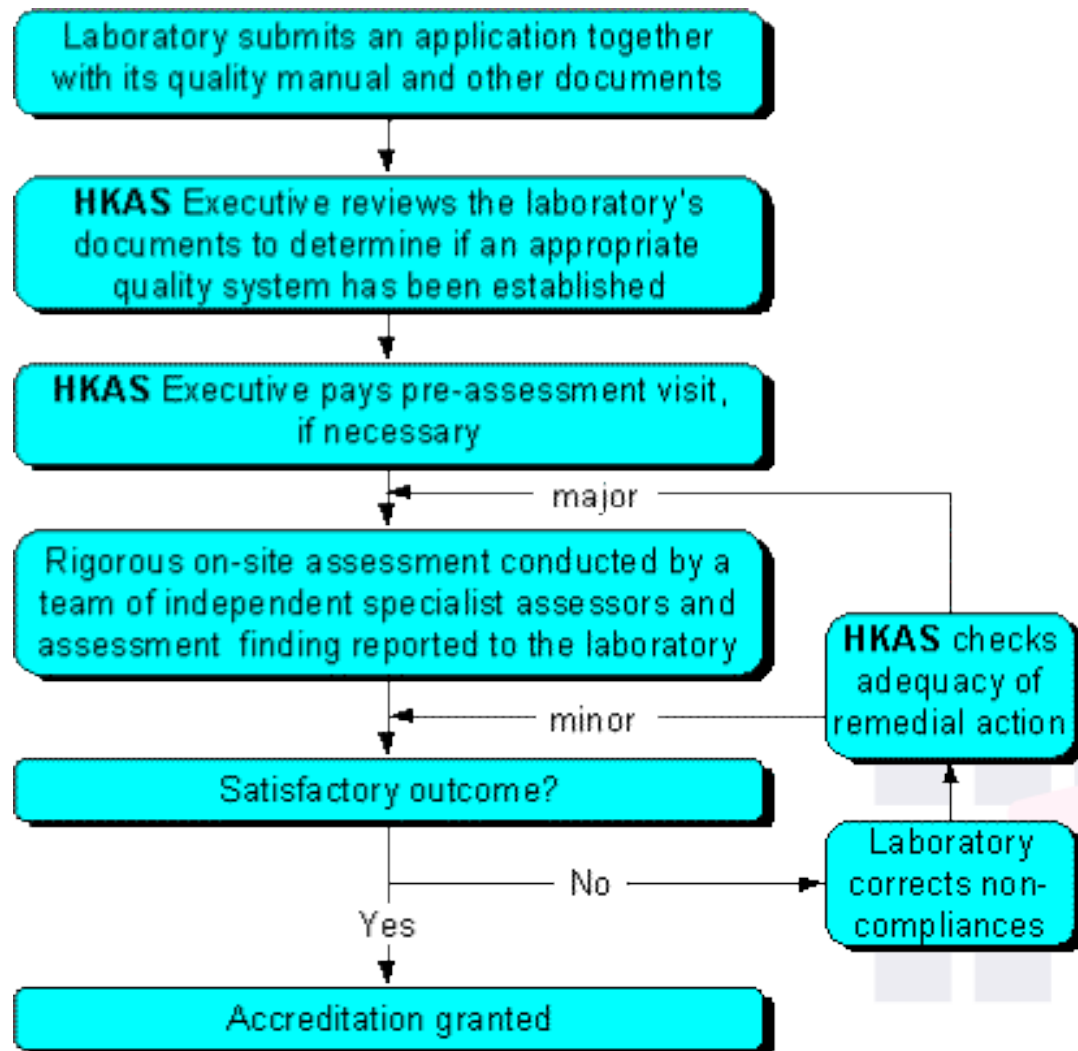
# Are they competent?

## Test, Certification, Inspection



# Are they acceptable?

# Accreditation Process 認可程序



# Certificate of Accreditation 認可證書

  
Hong Kong Accreditation Service  
香港認可處

**Certificate of Accreditation**  
**認可證書**

*This is to certify that*  
*特此證明*

**PILOT TESTING LIMITED**  
領導檢測有限公司

Room 1503, 15/F, Wayson Commercial House, 68-70 Lockhart Road, Wanchai, Hong Kong  
香港灣仔駱克道68-70號偉信商業大廈15樓1503室

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a  
為香港認可處執行機關根據認可諮詢委員會建議而接受的

**HOKLAS Accredited Laboratory**  
「香港實驗所認可計劃」認可實驗所

*This laboratory meets the requirements of ISO / IEC 17025 : 2005 – General requirements for the competence of testing and calibration laboratories and it has been accredited for performing specific tests or calibrations as listed in the HOKLAS Directory of Accredited Laboratories within the test category of*  
此實驗所符合ISO / IEC 17025 : 2005 - 《測試及校正實驗所能力的通用規定》所訂的要求，  
獲認可進行載於香港實驗所認可計劃《認可實驗所名冊》內下述測試類別中的指定  
測試或校正工作

**Environmental Testing**  
環境測試

*This laboratory is accredited in accordance with the recognised International Standard ISO / IEC 17025 : 2005.*  
本實驗所乃根據公認的國際標準 ISO / IEC 17025 : 2005 獲得認可。

*This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (see joint IAF-ILAC-ISO Communiqué).*  
這項認可資格顯示在指定範疇所需的技術能力及實驗所質量管理體系的運作  
(見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive  
香港認可處根據認可處執行機關的權限在此處上通用印章

  
WONG Wang Wen, Executive Administrator  
執行幹事 黃宏華  
Issue Date : 10 July 2013  
簽發日期：二零一三年七月十日

Registration Number : **HOKLAS 230**  
註冊號碼：

Date of First Registration : 10 July 2013  
首次註冊日期：二零一三年七月十日



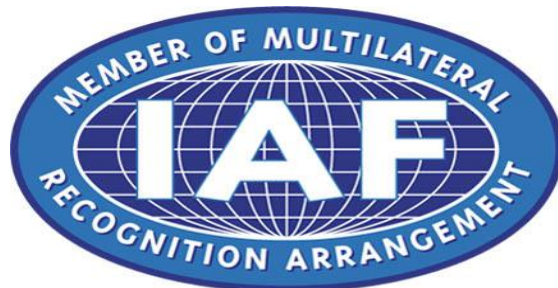
This certificate is issued subject to the terms and conditions laid down by HKAS  
本證書按照香港認可處訂立的條款及條件發出

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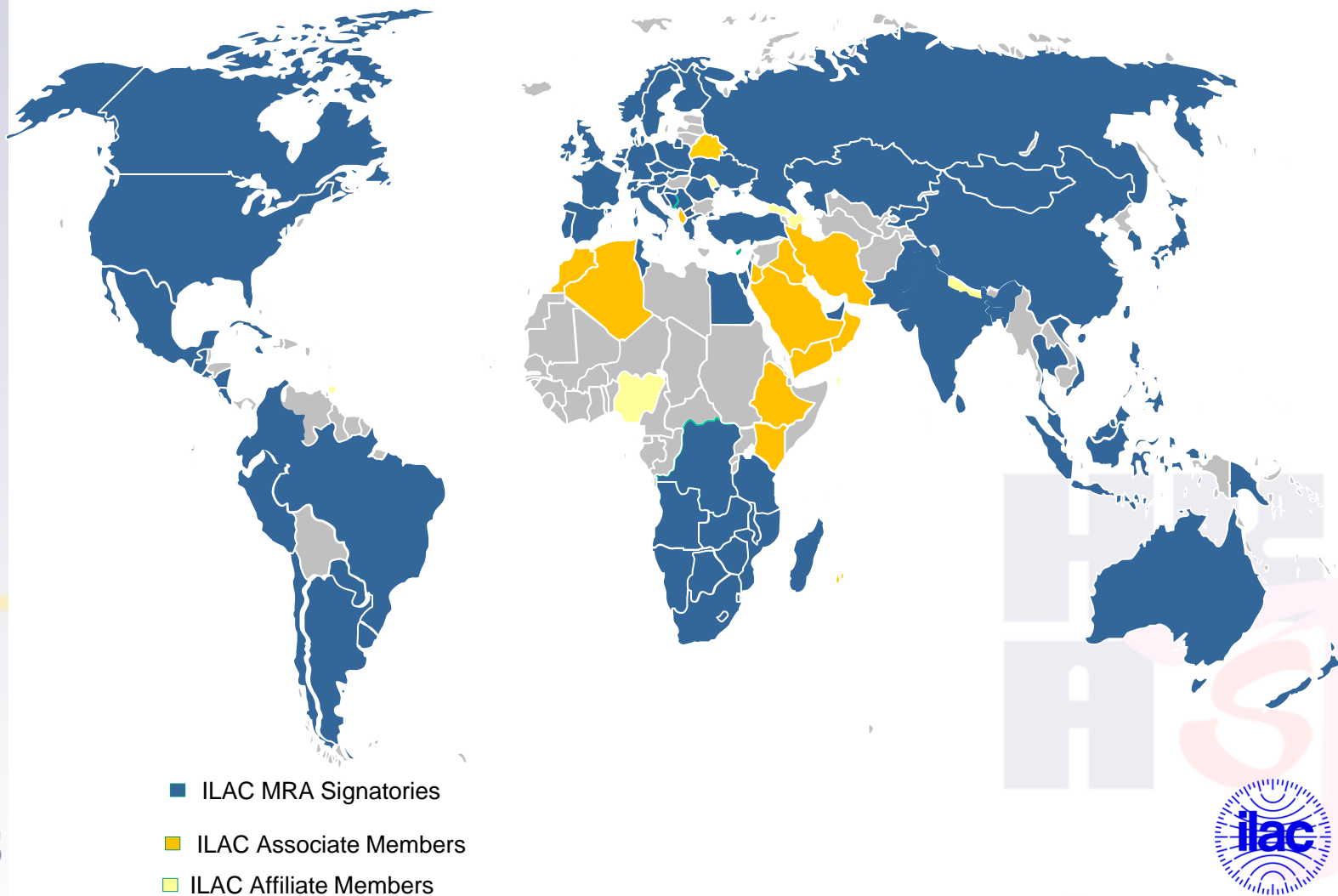
# Test Reports & Certificates Recognised Internationally 測試報告及證書獲國際承認

- ✦ HKAS is signatory to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) and International Accreditation Forum (IAF) Multilateral Recognition Arrangement (MLA)  
香港認可處 (HKAS) 是國際實驗所認可合作組織 (ILAC) 及國際認可論壇 (IAF) 的互認協議簽署成員
- ✦ Endorsed reports and accredited certificates issued by HKAS accredited organisations are recognised by its MRA / MLA partners (involving **100 accreditation bodies in 99 economies** in the world)  
香港認可處的互認協議夥伴 (當中包括 **99個經濟體系共100個認可機構**) 均承認獲香港認可處認可機構所發出並印有香港認可處認可標誌的報告及證書)



# Coverage of the ILAC MRA

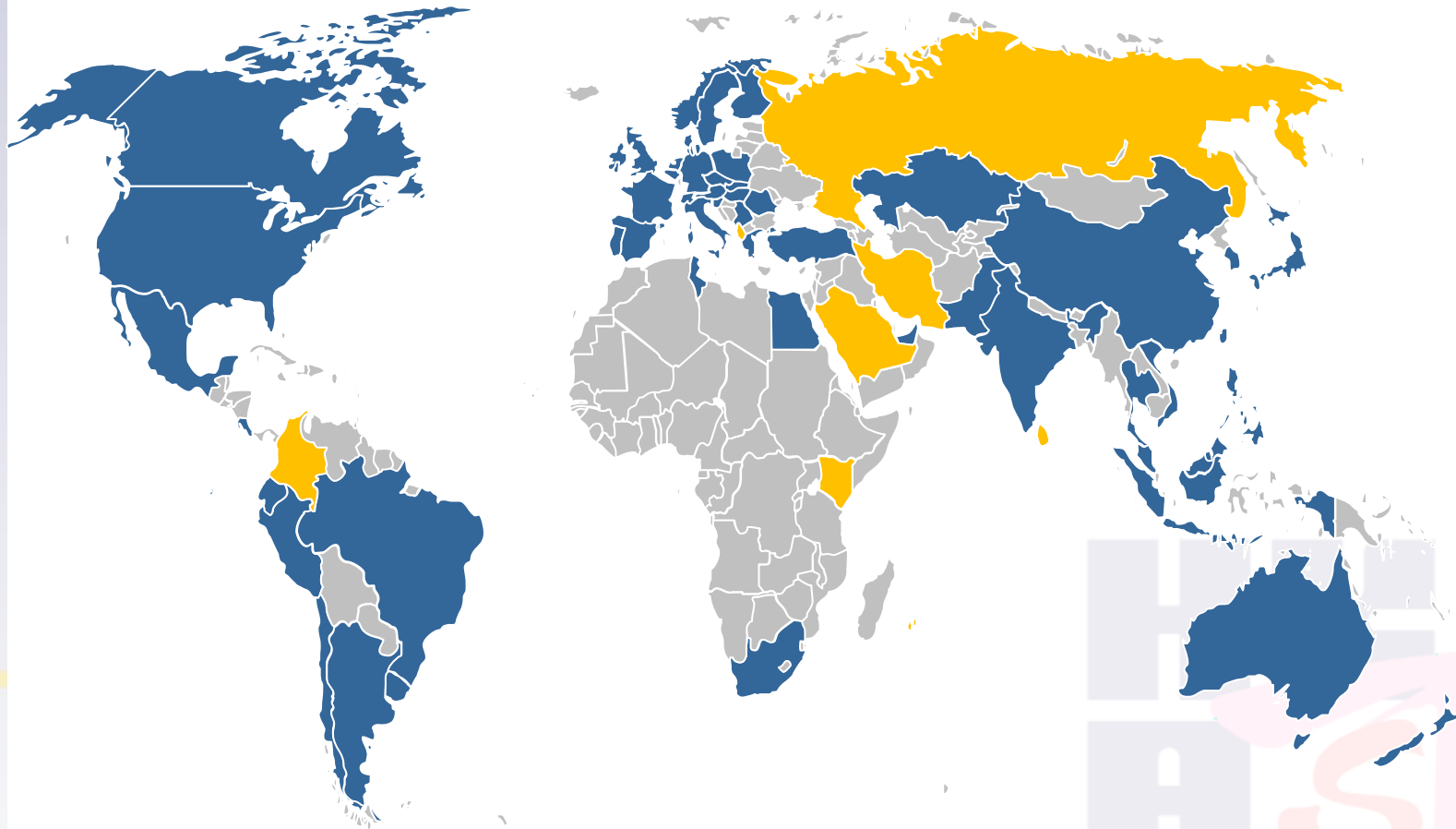
## ILAC MRA 的覆蓋範圍





# Coverage of the IAF MLA

## IAF MLA 的覆蓋範圍

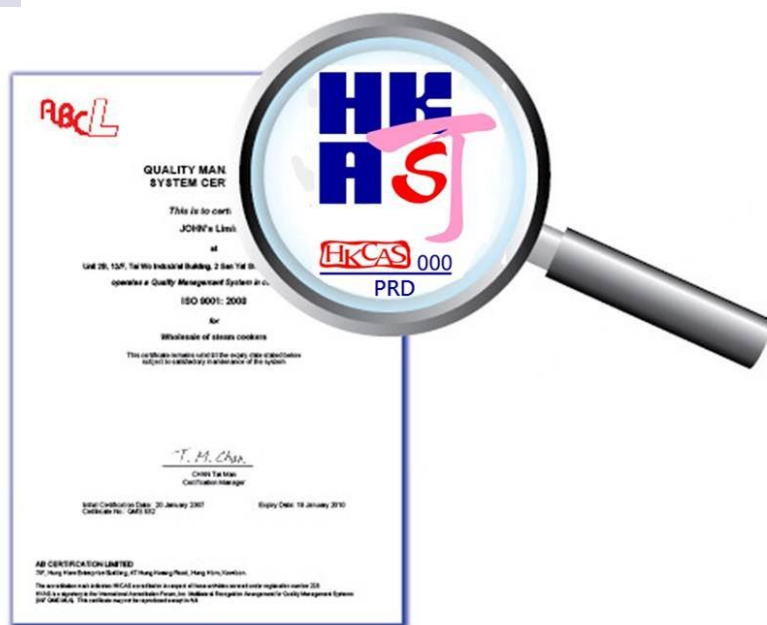


- IAF MLA Signatories
- IAF Members not yet Signatories



# Endorsed Reports and Accredited Certificates under HKAS Accreditation Schemes

## 印有香港認可處認可標誌的報告及認證證書



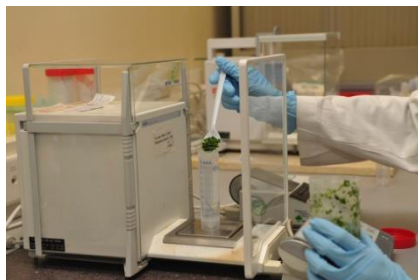
- ✦ Unless otherwise approved and specified, only results of accredited activities can be shown in endorsed reports and accredited certificates

除非經批准及清楚註明，否則獲認可機構只可就獲得認可資格的活動所得結果發出印有香港認可處認可標誌的報告及證証證書。

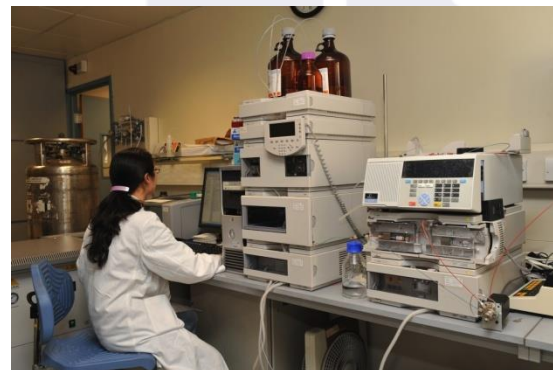
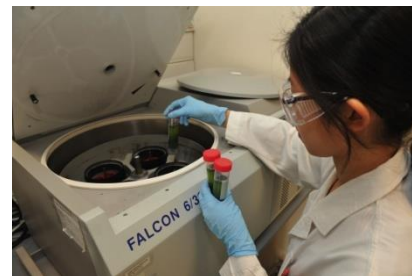
- ✦ Since the competence of the accredited activities has been assessed, the reliability of results in endorsed reports and certificates can be assured

由於獲認可機構在獲得認可資格的活動上其能力曾經接受嚴謹的評審，載有香港認可處認可標誌的報告及證証證書上的結果會更可靠。

# 食品測試 Food Testing



Nutrition Information 營養資料	
	Per 100g or Per 100ml/ 每 100 克或每 100 毫升
Energy / 能量	kcal or kJ / 千卡或千焦
Protein / 蛋白質	g / 克
Total fat / 總脂肪	g / 克
- Saturated fat / 飽和脂肪	g / 克
- Trans fat / 反式脂肪	g / 克
Carbohydrates / 碳水化合物	g / 克
- Sugars / 糖	g / 克
Sodium / 鈉	mg / 毫克
Insert nutrient(s) involved in claim(s) / 填入涉及聲稱的營養素	g, mg or µg 克、毫克或微克
Insert other nutrient(s) to be declared / 填入其他標示的營養素	g, mg or µg 克、毫克或微克



# Food Testing Services Provided by Hong Kong Laboratories

- Microbiological examination
- Chemical composition analysis (e.g. for use in nutrition labeling)
- Testing for food additives (e.g. anti-oxidants, preservatives, coloring matters and sweeteners, etc.)
- Testing for contaminants (e.g. trace elements, organic, pesticide and veterinary drug residues, radionuclides, etc.)
- Other food testing (e.g. GM food, food species identification by DNA sequencing)
- Testing of Food Contact Materials (e.g. testing of food containers)





# Accredited Food Testing Laboratories 獲認可食品測試實驗室

- As of Feb 2018, there are totally 22 laboratories accredited by HKAS to provide public service for testing of food and food contact materials (including micro-biological testing)
- For details, please visit [http://www.itc.gov.hk/en/quality/hkas/doc/common/directory/hoklas\\_food\\_en\\_ch.pdf](http://www.itc.gov.hk/en/quality/hkas/doc/common/directory/hoklas_food_en_ch.pdf)





# Accreditation of Food Testing Laboratories under HOKLAS

- ⊕ HOKLAS accreditation criteria for food testing laboratories are given in:
  - HKAS 002 Regulations for HKAS Accreditation
  - HOKLAS 003:2015 Technical Criteria for Laboratory Accreditation, which is based on the international standard ISO/IEC 17025:2005 – ‘General requirements for the competence of testing and calibration laboratories’
  - Relevant HKAS and HOKLAS Supplementary Criteria documents, e.g. HOKLAS Supplementary Criteria No. 8 and 37



# Technical Criteria for Laboratory Accreditation

- ✚ CI 5.4.2 Selection of methods
- When the customer does not specify the method to be used, the laboratory shall select appropriate methods that have been published either in international, regional or national standards ... Laboratory-developed methods or methods adopted by the laboratory may also be used if they are appropriate for the intended use and if they are **validated**.

# Technical Criteria for Laboratory Accreditation

- ✚ CI 5.4.4 Non-standard methods
- When it is necessary to use methods not covered by standard methods, these shall be subject to agreement with the customer and shall include a clear specification of the customer's requirements and the purpose of the test and/or calibration. The method developed shall have been **validated appropriately before use.**



# Technical Criteria for Laboratory Accreditation

- ✚ CI 5.4.5 Validation of methods
- CI 5.4.5.1 Validation is the confirmation by examination and the provision of objective evidence that the particular requirements for a specific intended use are fulfilled.

# Technical Criteria for Laboratory Accreditation

- CI 5.4.5.2 The laboratory shall validate non-standard methods, laboratory-designed/developed methods, standard methods used outside their intended scope, and amplifications and modifications of standard methods to confirm that the methods are fit for the intended use. The validation shall be **as extensive as is necessary** to meet the needs of the given application or field of application. The laboratory shall record the results obtained, the procedure used for the validation, and a statement as to whether the method is fit for the intended use.

# Technical Criteria for Laboratory Accreditation

- Note 1 Validation may include procedures for sampling, handling and transportation.
- Note 2 The techniques used for the determination of the performance of a method should be one of, or a combination of, the following:
  - calibration using reference standards or reference materials;
  - comparison of results achieved with other methods;
  - interlaboratory comparisons;
  - systematic assessment of factors influencing the results;
  - assessment of uncertainty of the results based on scientific understanding of the theoretical principles of the method and practical experience.





# Technical Criteria for Laboratory Accreditation

- Note 3 When some changes are made in the validated non-standard methods, the influence of such changes should be documented and, if appropriate, a **new validation** should be carried out.

# Technical Criteria for Laboratory Accreditation

- 5.4.5.3 The range and accuracy of the values obtainable from validated methods (e.g. the uncertainty of the results, detection limit, selectivity of the method, linearity, limit of repeatability and/or reproducibility, robustness against external influences and/or cross-sensitivity against interference from the matrix of the sample/test object), as assessed for the intended use, shall be relevant to the customers' need.



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*Thank you*

