



農業部

種苗改良繁殖場

# TAF認證檢測服務 及提升服務品質簡介

Brief introduction on TAF accredited testing services  
and service quality improvement

## 種苗檢驗科

Seed and seedling testing section

種苗屬於全球貿易的品項之一，從育種地、種子苗生產地，到最後銷售的栽培地都可能位於不同的地區或國家。為避免國境間之農產品流通造成外來植物疫病的入侵及蔓延，以及各國對於基改作物實施不同程度的管制措施，反應在種子貿易上即可能要求業者提出證明或檢測報告，進而形成非關稅的貿易障礙。也因此，與國際接軌的檢測能力能成為種苗產業發展的堅實後盾。

Seed is one of the items of global trade. Breeding, seed and seedling production, and cultivation might be located in different regions or countries. In order to avoid the invasion and spread of foreign plant diseases caused by international trade of agricultural products, and to cope with the regulations of genetically modified crops (GMO) in importing countries, certificates or testing reports might be required during seed trade, thereby forming a non-tariff barriers to trade. Therefore, the testing proficiency gearing to international standards can become a powerful backing for the development of the seedling industry.

## 建構優質種苗檢測服務平台

a high-quality seedling testing service platform

種苗改良繁殖場為提升檢測結果的可靠性與檢測品質，由種苗檢驗科實驗室取得「財團法人全國認證基金會」(簡稱TAF)認證 ISO/IEC 17025生物領域之測試實驗室(認證編號：1982)。透過 TAF與國際實驗室認證聯盟ILAC 等國際組織會員間的相互承認協議機制，使一份檢測報告可通行全球。

種苗改良繁殖場目前可提供大豆、玉米、木瓜、馬鈴薯及棉花等作物之基因轉殖元件檢測服務，以及7項經TAF認證之植物病原項目檢測服務。另為提升委託檢測案件申請的便利性，現已於「整合型植物種苗檢測多元服務平台」(<https://seedtesting.tss.gov.tw>)提供線上申請，達成簡化申請流程之目的，委託者也可即時查詢檢測進度。未來將依據服務對象需求，持續增列相關檢測服務項目。

In order to improve the reliability and quality of the testing results, the laboratory of seed and seedling testing section of TSIPS has hold ISO/IEC 17025 accreditation (No. 1982) by Taiwan Accreditation Foundation (TAF) which has a mutual recognition arrangement with International Laboratory Accreditation Cooperation (ILAC).

TSIPS provided accredited test services on GMO testing of 5 crops and molecular detection of 7 plant pathogens. Online testing application is now available on website (<https://seedtesting.tss.gov.tw>) to simplify the applying process and improve the convenience of searching for the detection progress. In the future, TSIPS will continue to add related testing service items according to the needs of seedling industry.



## GMO檢測服務項目

GMO testing services

作物種類 Crop	樣品樣態 Sample type	檢測項目 Testing targets/GMO events	定性檢測 Qualitative testing	定量檢測 Quantitative testing
大豆 Soybean	葉片、種子、毛豆、大豆產製品 leaf, seed, vegetable soybean, soy product	DAS-44406-6	●	▲
		DAS-68416-4	●	▲
		DAS-81419-2	●	▲
		DP-305423-1	●	▲
		DP-356043-5	●	▲
		GTS 40-3-2	●	▲
		Bt11	●	▲
玉米 Corn	葉片、種子、玉米產製品 leaf, seed, corn product	DAS-59122-7	●	▲
		Event176	●	▲
		Evnet3272	●	▲
		GA21	●	▲
		MIR604	●	▲
		MON810	●	▲
		MON863	●	▲
		NK603	●	▲
		TC1507	●	▲
		98140	▲	×
		DAS-40278-9	▲	×
		Event5307	▲	×
		MON88017	▲	×
		T25	▲	×
VCO-01981-5	▲	×		
木瓜 Papaya	葉片、種子、木瓜產製品 leaf, seed, papaya product	nptII	●	▲
		抗木瓜輪點病毒 (Papaya ring spot virus, PRSV) 轉殖品項	●	▲
		雙重抗木瓜輪點病毒 (PRSV)及木瓜畸葉嵌紋病毒 (Papaya leaf distortion mosaic virus, PLDMV) 轉殖品項	●	▲
馬鈴薯 Potato	葉片、薯球 leaf, tuber	EH92-527-2	●	×
棉花 Cotton	葉片、種子、果實、粉末 leaf, seed, fruit, powder	281-24-236	●	×
		3006-210-23	●	×
		T304-40	●	×
		GHB119	●	×
基因轉殖元件 transgenic elements	大豆葉片、種子、粉末、大豆產製品及玉米葉片、種子、玉米產製品 leaf, seed, powder and product of soybean and corn	CaMV 35S-p	●	×
		NOS-t	●	×

備註：上表中各標示符號意義如次：「●」為TAF認證報告；「▲」為實驗室報告(非TAF認證)；「×」為尚未提供該項檢測服務。

Remarks: "●" is the accredited report; "▲" is the laboratory report (non-certification); "×" indicates that the testing service has not yet been provided.

## 認證之植物病原檢測服務項目

Accredited plant pathogen molecular detection services

樣品樣態 Sample type	植物病原檢測項目 Pathogen detectoin targets	檢測方法 Method
西瓜組織 Watermelon tissue	西瓜果斑病菌 ( <i>Acidovorax avenae</i> subsp. <i>citrulli</i> , Aac)	ELISA
瓜類葉片 Cucurbits Leaf	瓜類胡瓜綠斑嵌紋病毒 (Cucumber green mottle mosaic virus, CGMMV)	ELISA
海芋葉片 Calla lily leaf	海芋病毒 (Dasheen mosaic virus, DsMV) · 洋蔥花葉病毒 (Turnip mosaic virus, TuMV)	ELISA
馬鈴薯葉片 Potato leaf	馬鈴薯捲葉病毒 (Potato leaf roll virus, PLRV) · 馬鈴薯病毒 (Potato virus S, PVS · Potato virus X, PVX · Potato virus Y, PVY)	ELISA
豇豆葉片 Asparagus bean leaf	胡瓜嵌紋病毒 (Cucumber mosaic virus, CMV) · 黑眼豇豆嵌紋病毒 (Blackeye cowpea mosaic virus, BICMV)	ELISA
番茄葉片 Tomato leaf	番茄嵌紋病毒 (Tomato mosaic virus, ToMV)	RT-PCR
蘭花組織 Orchid tissue	蕙蘭嵌紋病毒 (Cymbidium mosaic virus, CymMV) · 齒舌蘭輪斑病毒 (Odontoglossum ringspot virus, ORSV)	RT-PCR · ELISA

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