

霉菌篩選測試

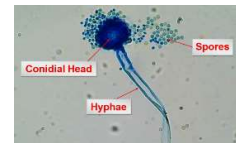
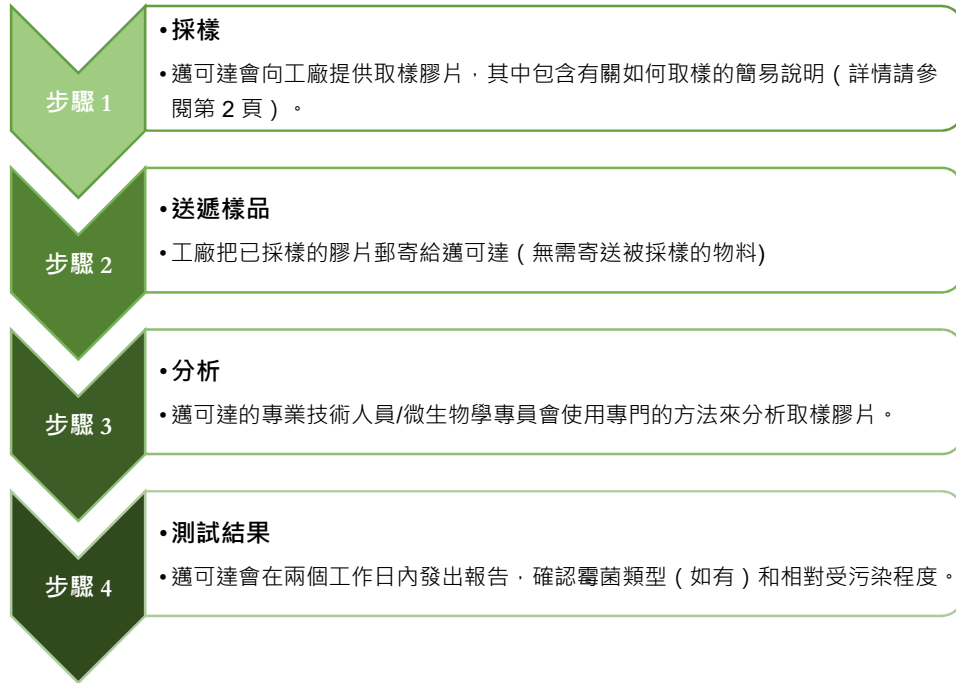
簡介及採樣程序



邁可達霉菌篩選測試

邁可達霉菌篩選測試使客戶能夠以簡單、快速和具有成本效益的方式測試原材料、成品或各種表面上的霉菌污染。樣品由用戶自行採集並送至邁可達技術辦公室進行分析，邁可達隨後會發出一份報告，指出所發現的任何霉菌、估計霉菌水平含量和建議一個整改計劃。請參閱第 4 頁的測試範例。

程序



霉菌測試方法



邁可達的菌測試提供了一種標準化的表面取樣方法，可以簡易快速地測試存在的**所有類型的霉菌以及霉菌污染的相對程度***。從取樣膠片收集的混合標本會由邁可達的專業技術人員/微生物學專員在生物顯微鏡下檢查，霉菌的識別是基於特定觀察區域（孢子、菌絲、分生孢子頭，和孢子囊）下的指示性霉菌元素。邁可達更會使用專有軟件來計算污染程度以及建議一個整改計劃。

**結果僅指測試的樣品區域，因此不能表明任何其他部分是否存在霉菌。*

付款資料

價格	邁可達取樣膠片連同樣品分析和報告的價格為每張 80 美元。最少訂購五張膠片/報告。
所需時間	一般會在收到送測樣品後兩個工作日內發出報告。
測試地點	已採樣的膠片可以送到邁可達在香港、中山、莆田、越南、印度、孟加拉國和美國的技術辦公室進行測試。(聯絡資料請參閱第 5 頁)
如何開始	1. 電郵至 info@micropakltd.com 以訂購霉菌測試的取樣膠片。 2. 付款 3. 邁可達會把取樣膠片連同簡易說明一起發送。 4. 採樣並將膠片郵寄回邁可達。 5. 從邁可達取得結果。

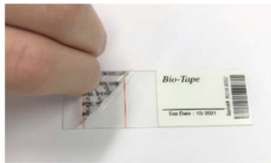
霉菌篩選測試 – 採樣程序



1. 從膠盒中取出取樣膠片。



2. 分別在取樣膠片和膠盒上的標籤記錄取樣位置及樣品詳情。將標籤貼於膠盒背部。



3. 除去取樣膠片上的保護貼，露出黏貼表面。
注: 請勿觸摸採樣窗口範圍。黏貼表面黏力很強，只需輕輕按壓即可。



4. 將取樣膠片上的黏貼表面下方放在取樣的表面上。(使用兩條紅色定位線將黏貼範圍對準所需位置上取樣) 輕輕向下按壓並依照以下指示:
 - 若樣品**沒有可見霉菌**，每個樣品可使用一張膠片在 **5-6 個不同位置上採樣**。請注意每次採樣的壓力不要過大。（注：盡量覆蓋樣品的主要物料、內襯和不同材料）
 - 若樣品**有可見霉菌**，每個樣品可使用一張膠片在 **最多 3 個不同位置上採樣**。



5. 將已取樣的膠片小心取下並放回膠盒中，標籤面朝上方。(採樣窗口應“TOP”字樣下方)
注: 請勿貼上保護貼。



6. 妥當地關閉膠盒。
注: 確保三個紅圈位置緊扣。



7. 將已蓋好的膠盒放進密封膠袋中，連同填妥的“霉菌測試申請表格”寄到就近的邁可達有限公司技術辦事處作進一步分析。

報告範本

Unrivaled Mold & Moisture Protection

Report No: MC20210821-SR
Report Date: October 7, 2021
Customer: Client 1
Factory Name: ABC Factory

Mold Screening Test Report

Sample Details	Test Results
Identified by ABC Factory	Mold Detected
Test Results Summary	Heavy Mold
Additional Findings	High Risk

I. INTRODUCTION OF MOLD SCREENING TEST

Mold Screening Test uses tape lift technique combined with microscopic examination to determine the presence or absence of mold. The extent of mold covered under specific view area and to identify the genus of the mold itself. This unique mold specimens sampling method enables customers/factories to quickly determine any possible mold contamination and the corresponding mold risk level on the tested product.

II. METHODOLOGY

Specimens prepared from tape-lift technique are examined under biological microscope. The identification of molds is based on the presence of indicative mold elements including spores, hyphae and sporangia.

The mold count rating is determined by the percentage area occupied by the mold elements in a selected view field (i.e. 3.2025mm) for 400X magnification and is intended to estimate the level of both viable and non-viable biomass of the mold elements on the tested area. It does not represent the infected area observed by naked eye.

Based on the extent of mold elements covered (i.e. % of viewed area covered) under viewed area of the tested sample, the corresponding mold risk level can be determined and recommended action plans are given as per provided Action Plans.

III. RESULTS INTERPRETATION AND FOLLOW UP ACTIONS

Based on the tape lift specimens collected on the tested sample and mold counts obtained under specific viewed area covered, the corresponding mold level and mold risk level can be determined and recommended action plans are as follows:

Mold Level	% of Viewed Area Covered	Mold Counts	Mold Level	Mold Risk	Suggested Actions	Next Follow Up Actions
1	0%	No mold detected	Not Detected	Low Risk	No action is required	---
2	0.01 - 0.99%	VERY TRACE amount of mold elements	Very Slight	Lowest Risk	Substitution of 1P sample for repeat is required	Mold Rating of 2
3	1.0 - 9.99%	TRACE amount of mold elements	Slight	Low Risk	Substitution of 1P sample for repeat is required	Mold Rating of 3
4	10 - 25%	FEW mold elements	Mild	Medium Risk	Substitution of 1P sample for repeat is required	Mold Rating of 4
5	26 - 40%	MID-TRACE mold elements	Moderate	High Risk	Substitution of 1P sample for repeat is required	Mold Rating of 5
6	41 - 60%	MODERATE mold elements	Medium	High Risk	Substitution of 1P sample for repeat is required	Mold Rating of 6
7	61 - 80%	HEAVY mold elements	Heavy	High Risk	Substitution of 1P sample for repeat is required	Mold Rating of 7
8	81 - 100%	VERY HEAVY mold elements	Very Heavy	High Risk	Substitution of 1P sample for repeat is required	Mold Rating of 8

*Note: The above suggested actions and next follow up actions are Micro-Pak suggestions. The final decision of what action to take is up to factory/customer per their individual quality requirements.

Unrivaled Mold & Moisture Protection

Report No: MC20210821-SR
Report Date: October 4, 2021
Customer: Client 1

Summary on Mold and Tape Lift Test Results

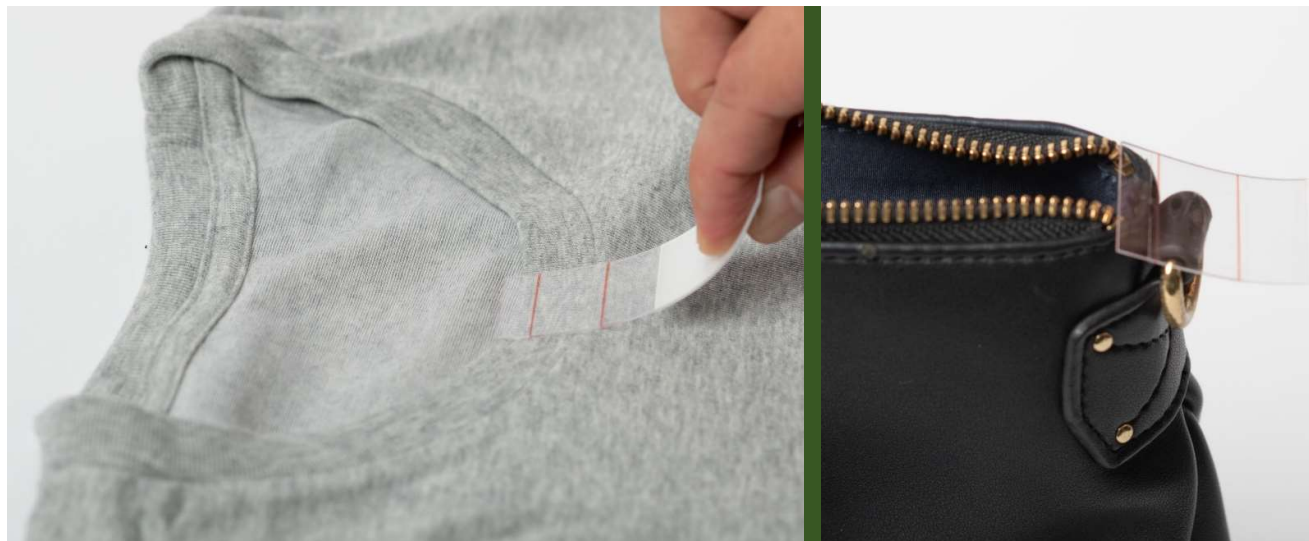
Case No	Sample Ref	Article	Sample photo	% of Viewed Area Covered	Tape Lift Test Observation	Mold Genus/Species Identified	Mold Rating / Mold Risk Level
MC202108 21-01	White-1	Style: 86684, Color: White, Size: US7		40.03%	Conidial head, hyphae and spores detected	Conidial head, hyphae and spores detected	5
MC202108 21-02	White-2	Style: 86684, Color: White, Size: US7		1.98%	Conidial head and spores detected	Conidial head, hyphae and spores detected	2
MC202108 21-03	White-3	Style: 86684, Color: White, Size: US7		16.86%	Conidial head, hyphae and spores detected	Conidial head, hyphae and spores detected	3
MC202108 21-04	White-4	Style: 86684, Color: White, Size: US7		6.54%	Spores detected	Conidial head, hyphae and spores detected	1

Summary on Mold and Tape Lift Test Results

Case No	Sample Ref	Article	Sample photo	% of Viewed Area Covered	Tape Lift Test Observation	Mold Genus/Species Identified	Mold Rating / Mold Risk Level
MC202108 21-11	Change 1	Style: 86685, Color: Titanium White/Black, Size: US8.5		16.30%	Conidial head, hyphae and spores detected	Conidial head, hyphae and spores detected	5
MC202108 21-12	Change 2	Style: 86685, Color: Titanium White/Black, Size: US8.5		16.30%	Conidial head, hyphae and spores detected	Conidial head, hyphae and spores detected	5
MC202108 21-13	Change 3	Style: 86685, Color: Titanium White/Black, Size: US8.5		6.50%	No indicative mold elements detected	No indicative mold elements detected	0

Note: 1) The Micro-Pak mold tests are **NAHUSE** tests and should be viewed as a general guideline only. For more precise results, please contact certified labs specialized in micro-biological testing.
2) The results shown on this report refer to the tested area only and are **NOT** an indicator of the presence or absence of mold on any other part of the tested item.

Case No	Sample Ref	Article	Sample photo	% of Viewed Area Covered	Tape Lift Test Observation	Mold Genus/Species Identified	Mold Rating / Mold Risk Level
MC202108 21-01	White-1	Style: 86684, Color: White, Size: US7	Material Swiped: Suede upper (visible mold)	40.03% Collection Ref: Collection Lot No: B197 5306 Mold Level: Heavy Mold	Conidial head, hyphae and spores detected Mold Count Rating: MANY (>40%)	Magnification: 400X Mold Genus: Aspergillus Species: NA	5 Mold Risk Level: High Risk
Factory:		ABC Factory					



測試範例

邁可達霉菌篩選測試可讓供應商在發貨前有進一步的預防措施，這些測試可以根據客戶的特定需求進行定制，從而得出有價值的信息以計劃成本開支，以下是關於抽樣計劃的一般建議。如有任何疑問，請電郵至 info@micropakltd.com

哪些產品需要測試？

初步測試應在成品上進行。開始時，我們建議測試應集中在風險最高的類別。如：

- 1) 過去 12 個月內出現過發霉問題的產品線
- 2) 過去 12 個月內有發霉問題的工廠所生產的產品
- 3) 高風險的材料
- 4) 過去 12 個月內有發霉問題的材料
- 5) 已經或將要長期儲存的貨物

需要測試多少項目以及多久要測試一次？

- 1) 每張採購單都需要進行測試。
- 2) 測試項目的數量應基於每張採購單的數量。請參閱以下抽樣計劃的示例
- 3) 若樣品沒有可見霉菌，每個樣品可使用一張膠片在 5-6 個不同位置上採樣。若樣品有可見霉菌，每個樣品可使用一張膠片在最多 3 個不同位置上採樣。為避免樣品交叉污染，一張採樣膠片只可用於單一項樣品測試。

測試程序

供應商應選擇固定數量的貨箱進行檢驗，應檢查這些紙箱中的物品是否有任何可見霉菌或霉菌氣味，從這些被檢查的貨物中，應選擇一定數量並使用邁可達取樣膠片進行霉菌篩選測試。

高風險產品的抽樣示例

下列的抽樣計劃是我們一個主要客戶針對確定為“高風險”產品的示例。

	每張採購單的貨品數量	檢測 (每箱數量)	所需檢測數量
1	超過 50,000 件	20	每箱 2 件
2	10,000 - 50,000 件	10	每箱 2 件
3	少於 10,000 件	5	每箱 2 件

這僅用於指引，並非固定建議。由於有許多不同情況需要考慮，邁可達可以幫助你制定更具體的標準抽樣作業程序。如欲索取更多資訊，請電郵至 info@micropakltd.com

已取樣的邁可達膠片可發送到哪裡？

邁可達膠片可發送至邁可達在香港、中國、越南、孟加拉、印度和美國最就近的技術辦公室，詳情如下。有關邁可達霉菌篩選測試計劃的更多詳情或訂購邁可達霉菌篩選測試用的膠片，請電郵 info@micropakltd.com 與我們聯絡。

邁可達有限公司技術辦事處

HONG KONG - 香港

邁可達香港辦事處	Micro-Pak Ltd.
地址: 香港九龍尖沙咀廣東道9號海港城 港威大廈第6座2504室	Address: Suite 2504, Tower 6, The Gateway, Harbour City, 9 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong
收件人: 技術部 電話: 852-2956 2991	Attn: Technical Department Tel: 852-2956 2991

CHINA - 中國

中國福建省以內 – 寄莆田辦事處地址	中國其他地區 – 寄中山辦事處地址
福建省莆田市廂區龍橋街道東園西路1033號 京都金融中心A棟1802室 (收件人: 技術部) 聯系人: Carrie 電話: 86-594-252 8983	中國廣東省中山市東區中山四路88號 尚峰金融商務中心A2座1805室 (收件人: 技術部) 聯系人: Helen 電話: 86-760-8833 5125

VIETNAM - 越南

Micro-Pak Ltd. – The Representative Office of MPTS Ltd. in HCMC
Address: MPTS Limited, 14F, AB Tower, 76A Le Lai Street, Ben Thanh Ward, District 1, Ho Chi Minh City, Vietnam
Attn: Linh - Technical Department Tel: 84-28-3820 8118

BANGLADESH - 孟加拉

Micro-Pak Ltd. – Bangladesh Office
Address: H.No. 38/3 (New), R.No.16 (New), 4th Floor, Sheikh Kamal Sarani, Dhanmondi, Dhaka-1209, Bangladesh
Attn: Biswajit Kumar Saha Tel: (880) 171-261 1661

INDIA - 印度

Gaitonde Leathers and Accessories Pvt. Ltd.
Address: No.58 Harrington Road, Corium House, Alsa Garden, A-Block 05th Floor, Chetpet, Chennai-600031, Tamil Nadu, India
Attn: Mr. Sathiya Tel: (91) 979-094 8483

USA - 美國

Micro-Pak USA, Inc.
Address: 7421 SW Bridgeport Road, Suite 204, Tigard, OR 97224, USA
Attn: Technical Department Tel: (1) 503 747 5755