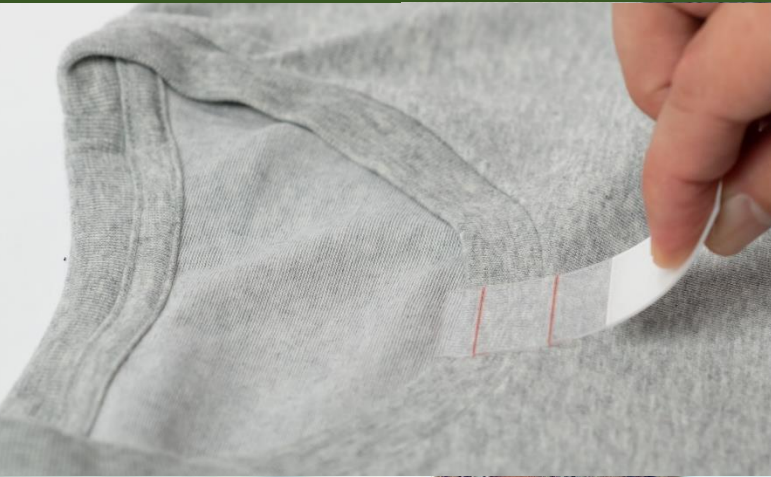


MICRO-PAK®

Unrivaled Mold & Moisture Protection

霉菌篩選測試

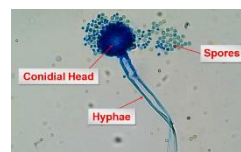
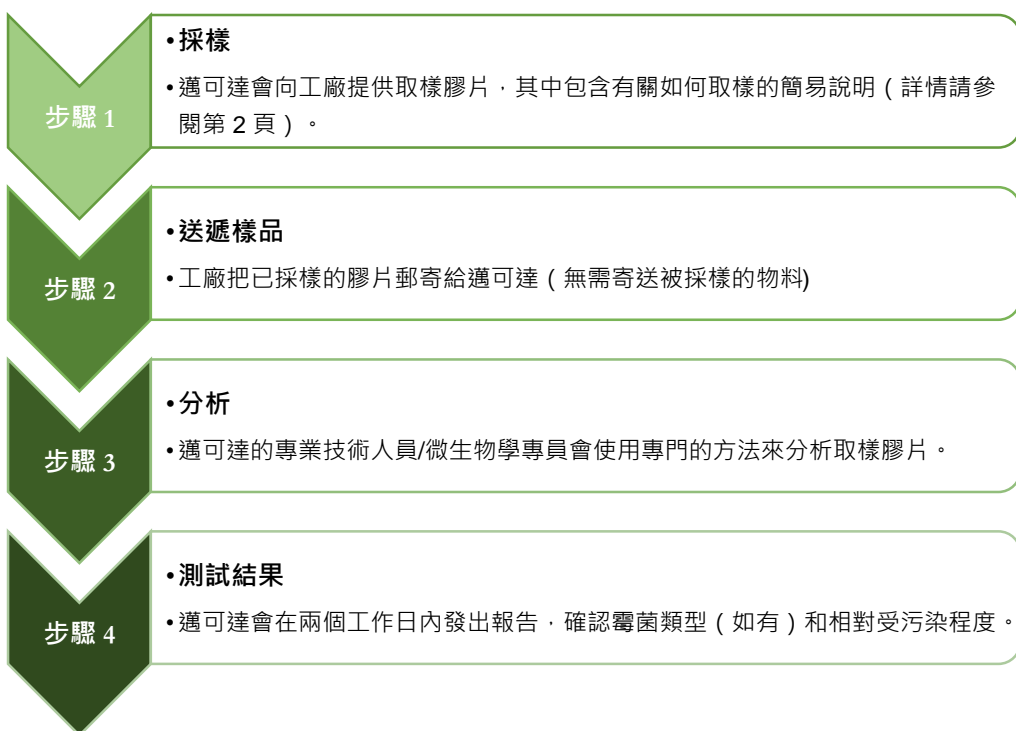
簡介及採樣程序



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。*

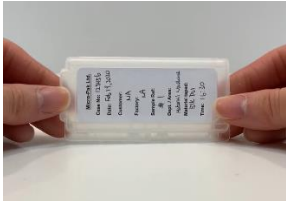
付款資料

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	<ol style="list-style-type: none"> 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

MICRO-PAK®
Unrivaled Mold & Moisture Protection

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

Mold Screening Test Report

Submitted by: ABC Factory	Test Results: Mold Detected
Tested Samples Submitted: 2	Highest Mold Level on submitted samples: High Risk
Additional Findings: No Additional Findings	

I. INTRODUCTION OF MOLD SCREENING TEST
Micro-Pak's unique "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 areas and to identify the genus of the mold itself. This unique mixed 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 real view field (i.e. 0.2025mm² 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 samples 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 Rating	% of Viewed Area Covered	Mold Genus	Mold Level	Mold Risk	Recommended Action	Tested Follow Up Solution
0	0%	NO	Indicative mold elements NOT detected	Low Risk	No need to respond	-
1	0.01 - 0.05%	Very slight mold	Very slight mold	Very Low Risk	Substitution of 2P sample for tested is suggested	Mold Rating: 1 Conduct mold cleaning as per customer's requirements
2	0.06 - 0.09%	Slight mold	Trace of mold elements	Low Risk	Substitution of 2P sample for tested is suggested	Mold Rating: 1 Conduct mold cleaning as per customer's requirements
3	10 - 20%	Mild mold	Mild mold	Medium Risk	Investment ON HOLD for possible future reinspection and certified mold cleaning	-
4	20 - 40%	Moderate mold	Moderate mold	High Risk	Investment ON HOLD for 100% goods reinspection and certified mold cleaning	-
5	>40%	Heavy mold	Heavy mold	High Risk	Investment ON HOLD for 100% goods reinspection and mold cleaning	-

*Note: The above suggested actions and/or 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.

Micro-Pak Ltd. | Mold Screening Test Report - Enclosure Page 1 of 2

MICRO-PAK®
Unrivaled Mold & Moisture Protection

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

Summary on Mold and Tape Lift Test Results

Client 1

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	Aspergillus	5
MC202108 21-02	White-2	Style: 86684, Color: White, Size: US7		1.58%	Conidial head and spores detected	NA	2
MC202108 21-03	White-3	Style: 86684, Color: White, Size: US7		16.00%	Conidial head, hyphae and spores detected	Aspergillus	3
MC202108 21-04	White-4	Style: 86684, Color: White, Size: US7		0.54%	Spores detected	NA	1

Factory: ABC Factory

Micro-Pak Ltd. | Mold Screening Test Report - Enclosure Page 2 of 2

MICRO-PAK®
Unrivaled Mold & Moisture Protection

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

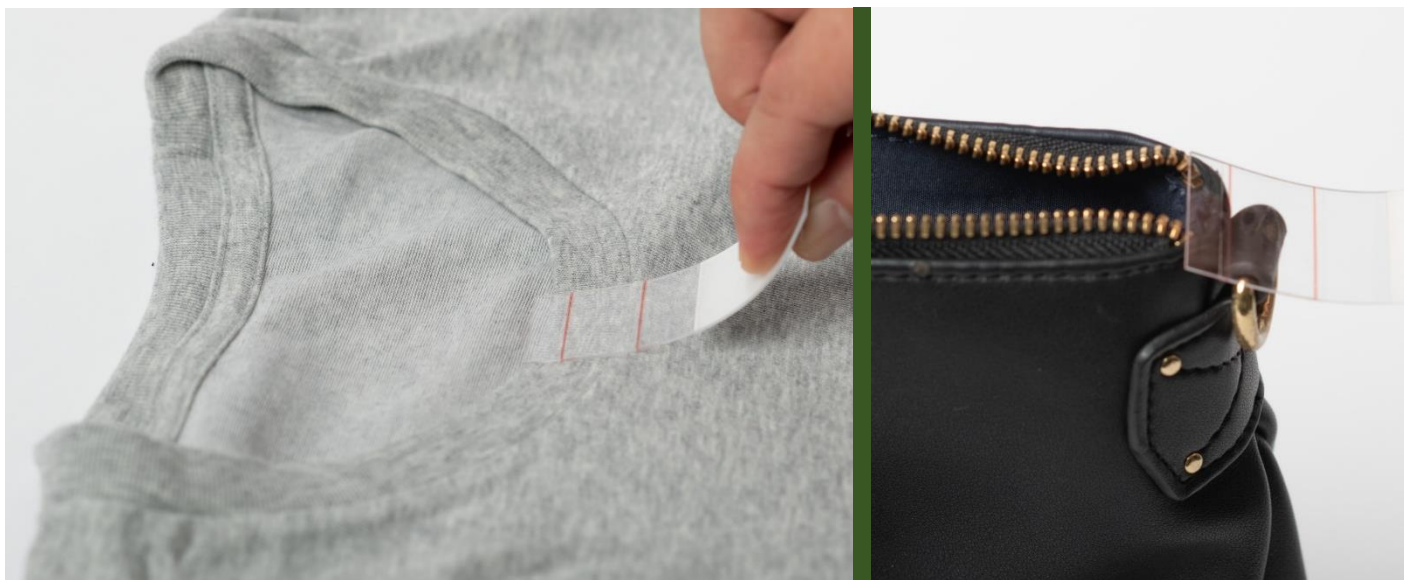
Summary on Mold and Tape Lift Test Results

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 21-11	Orange-1	Style: 86685, Color: Tan/Brown, White/Beige, Orange, Size: US8.5		55.30%	Conidial head, hyphae and spores detected	Aspergillus	5
MC202108 21-15	Orange-5	Style: 86685, Color: Tan/Brown, White/Beige, Orange, Size: US8.5		58.20%	Conidial head, hyphae and spores detected	Aspergillus	5
MC202108 21-16	Orange-6	Style: 86685, Color: Tan/Brown, White/Beige, Orange, Size: US8.5		0.00%	No indicative mold element detected	NA	0

Factory: ABC Factory

Micro-Pak Ltd. | Mold Screening Test Report - Enclosure Page 3 of 3

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	Aspergillus	5
			Material Swiped: Suede upper (visible mold)	Mold Level: Heavy Mold	Mold Count Rating: MANY (>40%)	Magnification: 400X Mold Genus: Aspergillus	Mold Risk Level: High Risk
Factory:	ABC Factory					Species: NA	



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

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