

Mold Screening Test Program

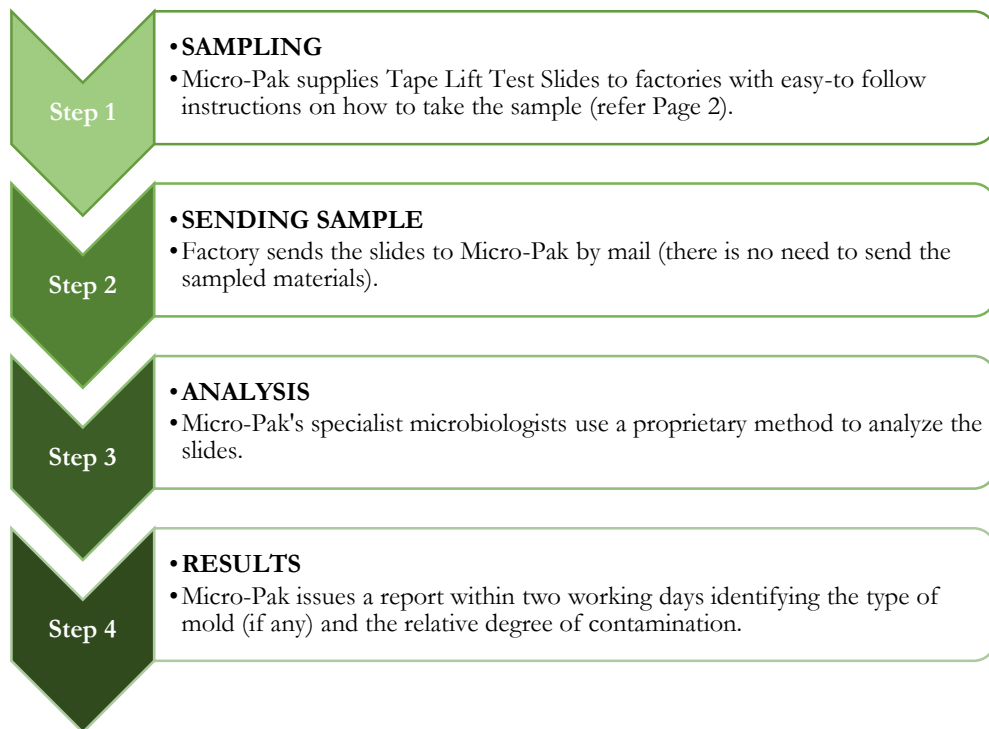
Introduction and Sampling Procedure



Micro-Pak Mold Screening Test Program

The Micro-Pak Mold Screening Test Program enables customers to test for mold contamination on raw materials, finished goods or various surfaces in a simple, fast and cost effective manner. Samples are taken by the user and sent to Micro-Pak Technical Offices for analysis. Micro-Pak will then issue a report identifying any mold found, the estimated mold level and a suggested action plan. Refer page 4 for an Example Testing Program.

Procedure



Tape Lift Test Method



Micro-Pak's Tape Lift Test provides a standardized surface sampling method to easily and quickly test for the presence of **all types of mold as well as the relative degree of mold contamination***. Mixed specimens collected from Tape Lift Slides are examined under biological microscopes by Micro-Pak's specialist microbiologists and the identification of molds is based on the indicative mold elements (spores, hyphae, conidial heads, and sporangia) under the specifically viewed area. Micro-Pak additionally uses proprietary software to calculate the degree of contamination together with a suggested action plan.

**Results refer to the tested sample areas only and are therefore not an indication of the presence or absence of mold from any other item.*

Program Details

Cost	Micro-Pak Tape Lift Test Slides together with sample analysis and reporting cost USD80 per slide. The minimum order is five slides/reports.
Lead Time	Report will be issued generally within two working days of receipt of the sample.
Testing Locations	Tape Lift Test samples can be sent to Micro-Pak's Technical Offices in Hong Kong, Zhongshan, Putian, Vietnam, India, Bangladesh and USA (contact details on Page 5)
How to Get Started	<ol style="list-style-type: none"> 1. Email info@micropakltd.com to place your order for tape lift test slides. 2. Settle payment. 3. Micro-Pak will send Tape Lift Slides together with instructions. 4. Take samples and return slides to Micro-Pak by mail. 5. Receive results from Micro-Pak.

Mold Screening Test - Sampling Procedure



1. Remove the slide from the provided plastic case.



2. Record the sample location, sample details on the slide and label provided, paste the label at the back side of the plastic case.



3. Peel off protective liner from the slide to expose the adhesive.

Note: Do NOT touch the sampling window. The adhesive is very tacky and only needs to be pressed gently. Do NOT press down hard.



4. Place the slide with the adhesive side down on the surface to be sampled. **(Use the centering line to orient the adhesive over the exact sample location desired).** Gently press down to ensure contact is made following the below procedure:
 - For samples with **no visible mold, 5 - 6 areas** of one sample should be collected on one tape. Please pay attention to the pressure of each collection, do not over press. (Note: Try to cover all main, lining and different materials of the sample)
 - For samples with **visible/suspected mold, up to 3 areas** of one sample should be collected on one tape to avoid over collection.



5. Carefully remove the slide from the surface and place it back into the plastic case **(Sampling window should be facing UP).**

Note: Do NOT replace the plastic "peel" liner.



6. Close the slide case properly.
Note: Ensure it is firmly closed on the three circled areas in red.



7. Put the slide case in a Ziploc bag and send it to the nearest Micro-Pak Technical Office together with the provided "Mold Screening Test Application Form" for further analysis.

Sample Report

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

Mold Screening Test Report

Submitted by: ABC Factory

Total Samples submitted: 7

Micro-Pak Slides

Highest Mold Level on submitted samples

Heavy Mold

No Additional Findings

Mold Detected

Highest Mold Risk Level on submitted samples

High Risk

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 area 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 visible and non-visible 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 Count	Mold Level	Mold Risk	Recommended Action	Post-Test Follow Up Actions
1	0%	NO	Not Detected	Low Risk	No re-test is required	---
2	0.01 - 0.05%	Trace mold elements	Very Slight Mold	Priority Background Detection	Submission of 2nd sample for re-test is suggested	Mold Rating +1
3	0.06 - 0.09%	Trace mold elements	Slight Mold	Priority Background Detection	Submission of 2nd sample for re-test is suggested	Mold Rating +1
4	10 - 25%	FEW mold elements	Medium Mold	Medium Risk	Re-test on 10% of sample for background detection	---
5	26 - 40%	MODERATE amount of mold elements	Medium Mold	Medium to High Risk	Re-test on 10% of sample for background detection and conduct mold cleaning as per customer's requirements	---
6	>40%	MAJORITY mold elements	Heavy Mold	High Risk	Re-test on 10% of sample for background detection and conduct mold cleaning as per customer's requirements	---

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

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		5
Factory:	ABC Factory						
MC202108 21-02	White-2	Style: 86684, Color: White, Size: US7		1.58%	Conidial head and spores detected		2
Factory:	ABC Factory						
MC202108 21-03	White-3	Style: 86684, Color: White, Size: US7		16.96%	Conidial head, hyphae and spores detected		3
Factory:	ABC Factory						
MC202108 21-04	White-4	Style: 86684, Color: White, Size: US7		0.54%	Spores detected		1
Factory:	ABC Factory						

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

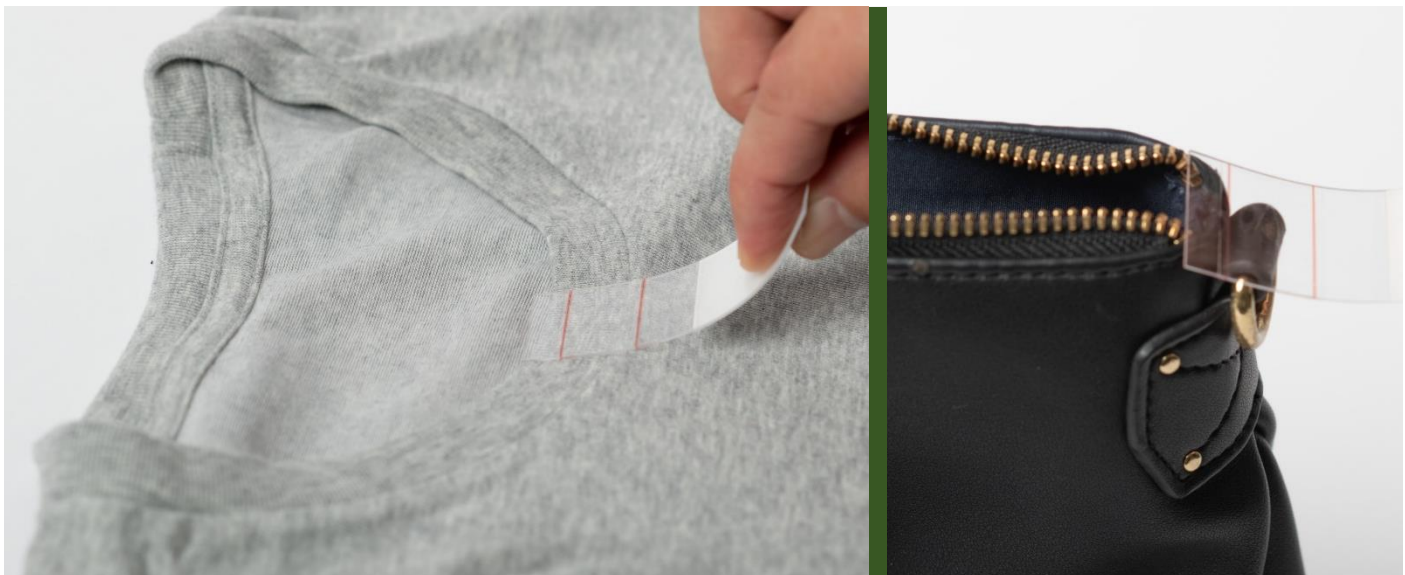
Summary on Mold and Tape Lift Test Results

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: Titanium White/Black, Straps: Size: US8.5		55.36%	Conidial head, hyphae and spores detected		5
Factory:	ABC Factory						
MC202108 21-15	Orange-5	Style: 86685, Color: Titanium White/Black, Straps: Size: US8.5		58.29%	Conidial head, hyphae and spores detected		5
Factory:	ABC Factory						
MC202108 21-16	Orange-6	Style: 86685, Color: Titanium White/Black, Straps: Size: US8.5		0.00%	No indicative mold element detected		0
Factory:	ABC Factory						

Notes:

- The Micro-Pak mold tests are **HOUSE** tests and should be viewed as a **general guideline only**. For more precise results, please contact certified lab specialized in micro-biological testing.
- The results shown on this report refer to the tested areas only and are **NOT** an indication of the presence or absence of mold on any other item or 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		40.03%	Conidial head, hyphae and spores detected		5
			Material Swiped: Suede upper (visible mold)	Collection Ref: Collection Lot No: B197 5306	Mold Level: Heavy Mold	Mold Count Rating: MANY (>40%)	Mold Risk Level: High Risk
Factory:			ABC Factory		Species: NA		



Example Test Program

Micro-Pak Mold Screening tests allow suppliers to take further precautionary steps prior to shipment. The use of these tests can be tailored to the specific needs of the customer resulting in valuable information at a planned cost. The following are general recommendations on a sampling plan. For any questions please contact info@micropakltd.com.

Which Products Should I Test?

Primary testing should be on finished products. To get started, we recommend focusing on a category in which you have had the highest risk. For example:

- a) Product lines that had mold problems in the past 12 months
- b) Products made in factories that had mold problems in the last 12 months
- c) High risk materials
- d) Materials that had mold problems in the past 12 months
- e) Goods that have been, or will be, stored for extended periods

How Many Items and How Often Should I Test?

- a) Testing should be done on each PO.
- b) The number of items tested should be based on the quantity per PO. See example sampling plan below.
- c) For items with no visible mold, **5 - 6 areas** of the item can be tested with one slide. For items with visible mold, a maximum of **3 areas** can be tested with one slide. To avoid cross-contamination of samples, one slide should be used to test one item only.

Testing procedure

The supplier should select a fixed number of cartons for inspection. The items in these cartons should be checked for any visual signs of mold or any smell of mold. From these inspected goods a certain quantity should be selected for mold screening using Micro-Pak tape lifts.

Example Sampling Plan for High Risk Items

The sampling plan below is an example from a major customer of ours for items that they identify as “High Risk”.

	No. of Items per PO	Inspection (No. of carton)	No. of samples tested
1	over 50,000 items	20	2 pieces per carton
2	10,000 - 50,000 items	10	2 pieces per carton
3	less than 10,000 items	5	2 pieces per carton

This is intended to provide guidance only and is not a fixed recommendation. As there are many variables to consider, Micro-Pak can assist you to develop a more specific SOP. For more information please contact info@micropakltd.com

Where Do I Send the Slides?

Send slides to any of Micro-Pak’s technical offices in Hong Kong, China, Vietnam, Bangladesh, India and the USA per details below.

For more information on the Micro-Pak Mold Screening Test Program or to order Micro-Pak Tape Lift Test Slides please contact info@micropakltd.com.

Micro-Pak Technical Offices

HONG KONG

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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 收件人: 技術部 電話: 852-2956 2991	Address: Suite 2504, Tower 6, The Gateway, Harbour City, 9 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong Attn: Technical Department Tel: 852-2956 2991

CHINA

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福建省莆田市城廂區霞林街道荔華東大道 宏基財富中心3樓 (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

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