DUST COLLECTION - VACUUM SYSTEM

How do I collect dust samples with the vacuum system?

AGILITY | RELIABILITY | ACCURACY

By purchasing the analysis service by Lis Biotech you have received a dust collection kit that contains: **1 pair of gloves, 1 cassette (sampler device), 1 return envelope, and a Chain of Custody (COC) form.**

PLEASE FOLLOW THE NEXT STEPS

01

Select the sampling area and put on gloves

In a carpeted room, mark a **2 m² area (about 22 square feet)** with tape. Put the gloves on both hands.

02

Prepare the cassette and connect the vacuum

The cassette has two caps: **A (top)** and **B (bottom)**. Remove both caps and keep them aside. Make sure the filter remains inside the cassette. Insert the vacuum hose attachment into the wider end **(B)**.

03

Vacuum the marked sampling area for 5 minutes

Start timing when vacuuming begins. Place nozzle **A** at one corner and tilt the sampler slightly so air can flow under it. Slowly sweep from one end to the other using overlapping passes. Adjust the speed so the entire **2 m²** area is covered during the **5-minute** sampling period.

04

Turn off the vacuum and inspect the sample

Tilt the device upward before turning off the vacuum to prevent material loss. Remove the sampler from the hose and visually confirm that dust is present. The sample should contain about **30-100 mg** of powder; repeat the collection process if more dust is needed.

05

Seal, label, and protect the sampler

Replace both caps, place the sampler directly into the provided plastic bag, and zip it closed. **Write the sample location on the bag label.** Dispose of the gloves. Do not tap the sampler; the micro-fine dust is needed for analysis.

06

Complete the COC and send the sample

Complete the Chain of Custody form; **blue sections are for INTERNAL USE ONLY.** Place the sealed sample bag and the completed COC in the new return envelope. Use the prepaid postage and send it through a USPS mailbox or office. Lis Biotech will process the sample according to the selected Sample Processing Time and email the results to the address provided on the COC.

DETAILS ON THE BACK

Important notes before you send your sample.

Enough dust | Drywall caution | COC handling | SPT + shipping

SAMPLE AREA + IMPORTANT DETAILS

Collect a representative vacuum dust sample

SAMPLE AREA + DUST AMOUNT

- Select a carpeted area measuring **2 m² (about 22 square feet)** and mark it with tape.
- Choose an area with as much dust as possible.
- Use overlapping passes and cover the full marked area during the 5-minute collection period.
- After sampling, make sure visible dust is present inside the cassette.
- A useful sample should contain approximately **30-100 mg of powder**.
- If more dust is needed, repeat the collection process.

IMPORTANT CAUTIONS

- Keep the filter inside the cassette during sampling.
- Keep both caps aside until the sample is collected.
- Do not keep the sampler completely flat against the carpet; restricted airflow can reduce sample uptake.
- Do not tap the sampler after collection; micro-fine dust is needed for analysis.
- Drywall/calcium residue can interfere with the mold-detection reaction and may cause inhibition.
- **DO NOT place the COC form inside the plastic bag with the sample.**

Drywall caution: Calcium contained in drywall can interfere with the reaction used to detect molds, causing inhibition and potentially inaccurate results. If you suspect your sample contains drywall residue, let us know.

WHAT TO LOOK FOR AFTER SAMPLING



Visible dust present

Approx. target: 30-100 mg of powder in the cassette.

CASSETTE ORIENTATION



A = nozzle / sampling end

B = wider end for vacuum hose

Keep the internal filter in place.

DO NOT place the COC form inside the plastic bag with the sample.

ORDER, SHIPPING + SAMPLE PROCESSING



SPT = Sample Processing Time (Same, 1, 2, 3 or 5 Day). The SPT depends on the purchase made.

If you prefer to use another mail service to send your sample to our lab, please mail it to:
Lis Biotech LLC, 4242 Medical Drive, Building 7, Suite 7325, San Antonio, Texas 78229.