

## Mold Scan™ Instructions for AS002 Sampling Tubes

1. Do not remove the Mold Scan™ tube (AS002 sample tube) from the capsule until you are ready to collect the sample.
2. The total volume of air to be sampled is 40 L.
3. Using the total volume to be collected and the sampling time desired, determine what sampling flow rate to use. The typical flow rate through an AS002 sample tube is 100 ml/min or less (50 ml/min. minimum) however, depending upon the vacuum pump used, flow rates as high as 200 ml/min can be used. Use of flow rates greater than 200 ml/min is not recommended.
4. Determine the sampling configuration to use. Typical configurations examples are given below:
  - For Personal monitoring  
TDT Air Scan® tube → transfer line to monitoring pump → monitoring pump (vacuum)
  - For Static monitoring  
TDT Air Scan® tube → transfer line to flow meter (or MFC) → flow meter → transfer line to vacuum pump → diaphragm or monitoring pump
5. Collect the Sample
  - a. Follow the directions on the capsule to break the capsule. Remove the AS002 sample tube from the capsule. Record the number on the storage vial that accompanied the capsule. Since Prism's Quality Control System is based on tube lot number, it is important that each tube is returned to the storage vial that accompanied the capsule.
  - b. Insert the AS002 sample tube into the sampling device. Be sure flow arrow on the tube is pointed in the direction of the air flow (toward the vacuum pump).
  - c. Draw the air sample through the AS002 sample tube. If a flow meter/diaphragm pump combination is used, periodically check and adjust the flow as necessary throughout the sampling period.
6. Post Sampling
  - a. Remove the AS002 sample tube from the sampling device, place the red end caps onto the ends of the tube, and place the tube in the storage vial that accompanied the capsule. To provide the maximum protection during shipment, load the tube into the storage vial in the following configuration:
    - Bottom of vial – one section of rubber tubing – plug of glass wool – tube – cap.Screw the cap tightly onto the storage vial. If you wish to attach your own label, put it on the storage vial. Do not attach any labels to the AS002 sample tube.
  - b. Record all sampling information that you need for your study together with the AS002 sample tube ID from the storage vial.
  - c. Fill out the Chain of Custody (COC) supplied with the AS002 sample tube. **Be sure to record the tubes and the total volume of air sampled in the appropriate space.**

The Chain of Custody (COC) is an integral part of Prism's QA/QC program. It is included with all sample submissions. It is the mechanism through which Prism receives and tracks samples, performs requested analysis(es), records data, and releases data to the client.

When submitting samples, fill out the COC with the following information:

① **Client information box**

Client Company Name, include name of section, building, person, etc.

Address address to which analytical results are to be sent

Bill to provide this information if different from above, be sure to include PO number

② **Project information box**

This information should also appear on the sample labels.

Project/Number: specific project name, identification, or number

Location: general location, town, building, etc.

Phone: phone number in case there are specific questions about the samples

Fax: provide if appropriate

Sampled by: person who acquired the sample or supervised the sampling

How preserved: how sample was handled from sample site to lab, for air tubes enter storage vial.

③ **Sample information box**

Prism Lab ID # Leave blank

Item # sequential numbering of samples delivered to lab

Sample Identification unique number or name of sample, be sure to include tube ID listed on the storage vial

Date Collected: the date the sample was collected

Sample type: enter "air"

Total volume of air: enter volume

Requested analysis Enter AS002. *Include in this box any special notes, such as "fax results", etc.*

④ **Signature box**

Relinquished by (signature): submitter's signature, date, and time

Received by: leave blank

d. Retain the pink copy of the COC. Return the white and yellow copies of the COC along with the tubes to Prism Analytical.

7. Ship Mold Scan™ tubes overnight to:  
Prism Analytical Technologies, Inc.  
1200 N. Fancher  
Mt. Pleasant, MI 48858  
ATTN: Air Scan Dept.

**Do not chill tubes or ship tubes in chilled containers.** If immediate shipment is not possible, store in a solvent-free area where the temperature will not exceed 25°C (77°F).  
**Do not refrigerate.** Shipment of tubes on a Friday is not recommended because delivery will not take place until the following Monday. Storage conditions and environment cannot be controlled in the interim and sample integrity may be compromised. For the same reason, ground shipment of tubes is not recommended.

## Sampling Notes

- A. If desired, a trip blank or a tube blank can be included with each sampling event. A tube blank is never removed from the capsule. To generate a trip blank, the tube is removed from the capsule, capped, and placed in a storage vial after sampling is complete. Both tube blanks and trip blanks accompany the samples through delivery to PATI. The charge for blanks is half that of samples provided they are identified as such on the Chain of Custody.
- B. It is recommended that unused AS002 sample tubes be stored in a solvent-free area where the temperature will not exceed 25°C (77°F). **TUBES MUST NOT BE REFRIGERATED.**
- C. AS002 sample tubes are not intended for use in sampling air with high concentrations of mineral acids or where humidity exceeds 90%.
- D. AS002 sample tubes will be replaced at no charge to the customer if the data is lost due to an instrument malfunction during analysis or other fault of PATI. However, PATI cannot be held responsible for consequential damages.

If you would like additional information or have any questions please contact:

**Prism Analytical Technologies, Inc.** Telephone 989-772-5088  
1200 N. Fancher Fax 989-772-5870  
Mt. Pleasant, MI 48858 E-mail [prism@pati-air.com](mailto:prism@pati-air.com)