

Semen Collection Technique

Dale McMahan & Krispn Given kgiven@purdue.edu

1: Prepare the Syringe

- Draw two small airspaces into the syringe to separate the semen from the saline column
- Add a drop of saline to the syringe tip to facilitate contact with the semen on the drone's endophallus.
- Ensure the tip remains moist but avoid excess saline that could dilute the semen as you collect semen
 between each drone



Step 2: Collect Semen

For each drone:

- Expel a small drop of previously collected semen from the syringe tip.
- Use this drop to contact the semen on the new drone's endophallus.
- Skim the semen from the surface, avoiding the underlying mucus layer.

Semen is more fluid and tan-colored with marbling; mucus is white and viscous.

If resistance is felt, the tip may be in the mucus layer, stop and reposition to avoid tip clogging.

3: Maintain Quality and Hygiene

Repeat the collection process until 8–10 μ l of semen is obtained — the standard dose per queen.

Ensure the semen column is uniform in color and density.

Maintain strict sanitary conditions:

Note: To avoid contamination of semen, instruments, and hands sanitation is critical to prevent queen mortality.

