

## Conidia Production

1. Boil 1 L water in a flask on a hot plate.
2. Add 40 g mungbean seeds into boiling water and continue to boil for 10 min. (*Make sure mungbean does not open and does not release starch from seed because starch inhibits growth of conidium*).
3. Filter the mungbean broth through two layers of cheesecloth to remove mungbean and collect the liquid in a clean flask.
4. Aliquot liquid into ten 250 ml flasks with 100 ml in each flask.
5. Autoclave at 121 C for 20 min.
6. Let flasks cool down to room temperature.
7. Transfer a small plug (~ 0.5 x 0.75 cm) of PDA-grown *F. graminearum* culture into the mungbean medium of each flask.
8. Incubate flask in a shaker (200 rpm) at 28 C for 4 days.
9. Filter the culture through two layers of cheesecloth to remove mycelium.
10. Mix well and transfer some liquid into a haemocytometer to check the spore concentration. Count the spores (boat-shaped) with the aid of a microscope and dilute concentration to 100 spores/uL with sterile distilled water.
11. Mix well the culture liquid and aliquot into smaller tubes.
12. Store at 4C until use (it can be stored for up to 2 months).
13. Shake well before use

If you have further question about the protocol, please contact:

Dr. Guihua Bai

USDA-ARS Plant Science and Entomology Research Unit

4008 Throckmorton Hall

Manhattan, KS 66506

URL: <http://www.oznet.ksu.edu/wheatgenotyping>

Voice: (785)-532-1124

Email: [gbai@ksu.edu](mailto:gbai@ksu.edu)