



Setup/calibration time was approx 15 minutes for initial calibration. Construct Proto tip/filter required 2 hrs

Material condition: Coarse Yellow/ white powder of non-uniform particulate size. Particulate size is <3 - 40 micron.

Tested with 20u filter.

- 1. Samples required about 3 4 seconds to fill the extended length pipette. Used the sharp edge scraper surface. Some variation in tap density variation. Sharp edge scraper improved results over flat surfaced levelling plate.
- 2. Recommend a tip with a larger diameter tip than our standard .500 diameter pipette tip and high air flow control unit due to increased tip volume and cross section.
- 3. Samples taken directly from the bag to control tap densiity.

3A. Filling 20 gm

- 3.1. A cylindrical 30 ml bottle with a neck opening 26 mm X 85 mm long was chosen for the container in lieu customer specified container for test filling.

 -No blowback was observed.
- 3.3. Cycle time: average cycle time was 6 sec/sample after calibration.
- 3.5 Bottle was not weighedCapsules were not weighed after filling.

Easy material to sample and dispense. Oversized pipette tip/filter required for one shot filling. Suggest thin wall tubing for tip weight for operator ergonomics.

20 gram





3B. Filling 5 gm

- 3.1. A cylindrical 15 ml centrifuge vial with a neck opening 14.0 mm X 120 mm long was chosen for the container in lieu no customer specified container for test filling.

 -A special .500 diameter vial filler pipette tip with funnel opening was selected for this test to prevent flour blowback.

 -No "blowback" or loose flour was observed outside of the vial.
- 3.3. Cycle time: average cycle time was $\,$ 3-4 sec/sample after calibration.
- 3.5 Vial weight, empty, 5.4122 gm.

full, 5.0092 gm tared

Corn flour dispensed readily, with out "Blowback" into the vials.

5 gram



