

Electronic Balance-

We recommend a four place readout on the balance and suggests "Balance Talk™" or other LIMS software for data input and management.

Items needed:

Electronic Balance



Heat Sealer
#HS – (120V)
#HSi – (220V)



Filter Bags
#F57



Bag Weigh Holder
#101.2



Chosen Sample



MoistureStop™ Weigh Pouch
#X45



Solvent Resistant Marker
#F08

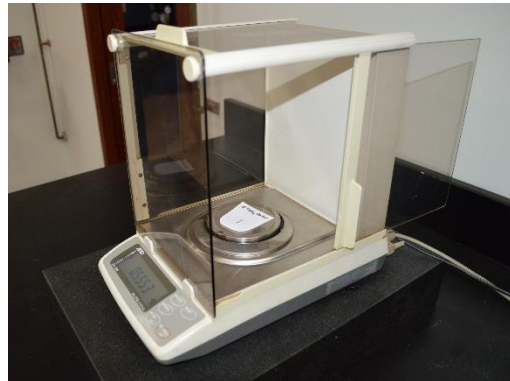


1. Number all bags using a solvent resistant marker.

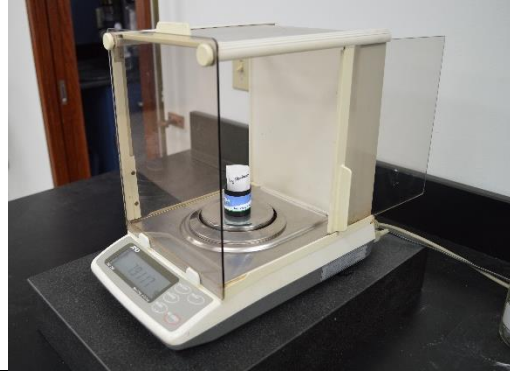


2. Weigh and record filter bag weights (W1).

*Avoid static electricity

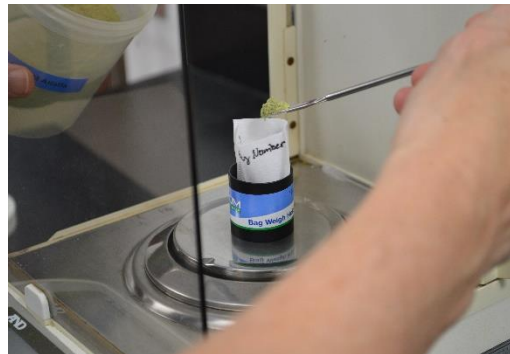


3. Tare weight of Filter Bag and Bag Weigh Holder.



4. Add 0.5g (for NDF & ADF) or 1.0g (for CF) of sample to bag using a spatula. Be careful not to get sample particles on top edge of the bag sealing area.

Weigh sample and record weight (W2)



5. Heat sealer dial should be set between 4 and 5. The setting may vary from sealer to sealer.



6. Seal each Filter Bag within 4mm of its open end. Hold down handle for 2-3 seconds after the red light turns off to cool seal.



7. IMPORTANT- The seal can be seen as a solid melted stripe along the top edge. If the seal is not strong, re-seal.



8. Stack each tray on the Bag Suspender rod. Insert weighed Filter Bag into each Bag Suspender trays as shown. Insert into the instrument perform the extraction.



9. After fiber extraction is complete, acetone-rinse and dry according to procedure. Remove from oven and immediately store in the MoistureStop™ Weigh Pouch.



10. Cool to room temperature and re-weigh each bag (W3).

AS-Is Basis-
$$\frac{(W_3 - (W_1 \times C_1)) \times 100}{W_2}$$

*DM Basis-
$$\frac{(W_3 - (W_1 \times C_1)) \times 100}{W_2 \times DM}$$

**OM Basis-
$$\frac{(W_4 - (W_1 \times C_2)) \times 100}{W_2 \times OM}$$

Where:

W_1 = Bag tare weight

W_2 = Sample weight

W_3 = Weight after extraction

W_4 = Weight of organic matter (OM) (loss of weight on ignition of bag and fiber residue)

C_1 = Blank bag correction (final oven-dried weight/original bag weight)

C_2 = Ash corrected blank bag (loss of weight on ignition of blank bag/original blank bag weight)

*DM = Fiber calculated on dry matter basis; only used per customer preference

**OM = Fiber calculated on organic matter basis; only used per customer preference