



*"Turning Science into Money"*

*Est. 1998*

## **Microwave Dry Matter (DM)**

### Materials:

1. Microwavable Salad Bowl
2. Gram Food Scale
3. Stirring Utensil
4. Glass of Water
5. Feedstuff

### Protocol:

1. Microwave the empty salad bowl for 2 minutes.
2. Remove bowl from the microwave and weight, record weight.
3. Tare the scale weight.
4. Add 200 to 300 grams of the feedstuff in question.
5. Set the glass of water in the corner of the microwave (helps prevent charring of the sample) and the bowl with feedstuff in the microwave.
6. Microwave bowl with feedstuff for 3 minutes.
7. Remove from the microwave and stir.
8. Microwave for 1 minute.
9. Weight the sample.
10. Repeat steps 6-8 until the sample has remained the same weight for 3 consecutive weights.

### Calculations:

$$\% \text{ DM} = \text{Dry Wt Feedstuff} / \text{Wet Wt Feedstuff}$$

If you did not have a way to tare the scales to exclude the bowl weight

$$\% \text{ DM} = (\text{Dry Wt Feedstuff} - \text{Bowl Wt}) / (\text{Wet Wt Feedstuff} - \text{Bowl Wt})$$

To calculate moisture

$$\% \text{ Moisture} = 100 - \% \text{ DM}$$

### Precautions:

You can start the feed sample on fire if you do not remove from the microwave and stir each minute. If the glass of water is empty, refill it. Do not leave unattended.