Partial Dry Matter (60 °C)

Materials:

Grieve oven (forced air) set at 60 °C Top loading balance (weighs to 0.1 g) Aluminum sheet pans (8" x 12") or plastic plates (8-10")

Procedure:

- 1. Label and weigh aluminum sheet pan (8" x 12") to the nearest tenth of a gram.
- 2. Record weight.
- 3. Mix sample well and place sufficient amount (several hundred grams) in pan, record weight of pan and sample to nearest 0.1 g.
- 4. Place pan with sample in Grieve oven set at 60 °C and dry to a constant weight (1 to 3 days).
- 5. Fecal samples will need to be thawed (if frozen) first, then spread thin or broken up to complete the drying process.
- 6. Once samples are dry, remove, air equilibrate for 2-3 hours, and weigh to the nearest 0.1 g on the same top loading balance.

Note: Most forages will be dry within 1-2 days. Fecal samples will be dry within 2-3 days.

Calculations:

$$D = \left[\frac{C - A}{B - A}\right] \times 100$$

$$60.3 = \left[\frac{125.7 - 13.3}{199.7 - 13.3}\right] \times 100$$

Reference

Harris, L. E. 1970. Nutrition Research Techniques for Domestic and Wild Animals published by L. E. Harris, Utah State Univ., Logan.