

12.1 Gross energy of feed and faeces

Preparation of sample

- 1) Weight 0.5 to 1 g of the finely ground samples and make a pellet with the help of a pellet press.
- 2) Weigh the empty bomb crucible. Put the pellet into the crucible and weigh again.
- 3) Weigh out in duplicate some of the dried material into the moisture cup at the same time as pellets are prepared (for moisture determination). Dry for overnight at 100°C.

Bombing procedure

Follow the steps as described, in case of bomb equivalent.

Calculation

The gross energy may thus be calculated by using the following equation.

$$GE \text{ (cal/g)} = \frac{(\text{Bomb equivalent} \times T) \times A}{\text{Dry weight of sample (g)}}$$

Where,

T = Rise in temperature (°C)

A = Correction factors for wire, thread, N and sulphur