

SOLUBLE NITROGEN – SODIUM CHLORIDE METHOD
Updated September 2013

I. Reference:

Waldo, D.R. and H.K. Goering. 1979. J. Animal Sci. 49:1560.

II. Personal Protective Equipment:

- A. Lab coat
- B. Safety glasses/goggles
- C. Latex gloves

III. Reagent:

- A. 15 M NaCl (8.77 g NaCl/L).

IV. Procedure:

- A. Weigh, in duplicate or triplicate, 2 to 5 g of sample into 250 ml Erlenmeyer flask, include blanks.
- B. Add 100 to 200 ml of 0.15 M NaCl.
- C. Place on shaking hot plate. Heat to 40°C and shake for 1 hour.
- D. Filter through Whatman 541 filter paper and rinse several times with 0.15 M NaCl.
- E. Dry (60°C) and run Kjeldahls on the filter paper (insoluble N).

V. Calculation:

$$\text{Soluble N, \% of total N} = 1 - \frac{\% \text{ Insoluble N}}{\% \text{ Total N}}$$

Note: If NPN is desired on the sample, the filtrate can be saved. See NPN procedure.