

Non-Protein Nitrogen

Crude Protein (CP) is composed of two nitrogen-containing feed fractions: *True protein* and *Non-protein Nitrogen* (NPN). To separate these two fractions, True Protein is precipitated out of solution using either tungstic acid or trichloroacetic acid (TCA). The NPN left in solution is measured using the Kjeldahl procedure as described for the determination of CP.

NPN, including compounds such as urea, ammonium salts, amino acids, small peptides and nucleic acids, represents the fraction of Crude Protein most rapidly degradable in the rumen.