



Cumberland Valley Analytical Services, Inc.
Laboratory Services for Agriculture

NIR Analysis Options

NIR 1 Analysis The NIR 1 Analysis includes tests for Dry Matter, Moisture, Crude Protein, ADF Protein, NDF Protein, Soluble Protein, ADF, NDF, Lignin, Starch, Sugar, Fat, Ash, Calcium (Ca), Phosphorus (P), Magnesium (Mg), and Potassium (K) with pH by traditional method on ensiled forage. Calculated values are provided for Available Protein, Adjusted Protein, Degradable Protein, NEL, NEM, NEG (OARDC Summative Energy Equation), and NFC.

NIR 2 Analysis The NIR 2 is the NIR 1 Analysis with wet-chemistry Minerals - Calcium (Ca), Phosphorus (P), Magnesium (Mg), Potassium (K), Iron (Fe), Manganese (Mn), Zinc (Zn), and Copper (Cu).

NIR 3 Analysis The NIR 3 is the NIR 2 Analysis plus wet-chemistry on Chloride (Cl) and Sulfur (S).

NIR 4 Analysis The NIR 4 is the NIR 2 Analysis plus wet-chemistry on Crude Protein, ADF, and NDF.

NIR 5 Analysis The NIR 5 is the NIR 1 Analysis plus wet-chemistry on Crude Protein, ADF, and NDF.

NIR Plus Option The NIR Plus Option provides 30 hour NDF Digestibility and an NIR evaluation of Fermentation acids (for ensiled forages) on the five NIR Analysis options listed above. For Corn Silages, the NIR Plus Option gives the additional value of Enzyme Available Starch and an indication (Low, Medium, or High) of soil contamination.