

ASBC Approved Methods Malt – 8

A. By Kjeldahl (International Method)

Calculate percent protein in malt by the formulas

% Protein (N × 6.25), as-is basis

$$= \frac{(\text{mL } 0.1N \text{ H}_2\text{SO}_4 - \text{mL } 0.1N \text{ NaOH}) \times 0.0014 \times 6.25 \times 100}{\text{wt of sample}}$$

% Protein (dry basis)

$$= \frac{\% \text{ protein (as is)} \times 100}{100 - \% \text{ moisture}}$$

Protein – N × 6.25

wt of sample (g)

mL 0.1N H₂SO₄ used

mL 0.1N NaOH used

moisture, %

Results

Protein (N × 6.25), %, as-is

Protein (N × 6.25), %, dry basis

Protein (N × 6.25), %, as-is

$$= \frac{(50.0 - 33.4) \times 0.0014 \times 6.25 \times 100}{1.40} = 10.375 = 10.38$$

Protein (N × 6.25), %, dry basis

$$= \frac{10.375 \times 100}{100 - 4.3} = 10.84$$