

## ASBC Approved Methods Malt – 5

Calculate wort nitrogen and wort protein percent by the formulas,

$$\text{Wort } N, \% = \frac{(A - B) \times 0.0014 \times 100}{\text{sp gr} \times 25}$$

Wort, protein, % = wort *N* × 6.25.

Calculate wort nitrogen in terms of percent of malt, dry basis, by the formula,

Wort *N* (% of malt, dry basis)

$$= \frac{(A - B) \times 0.0014 \times 100 \times E}{P \times \text{sp gr} \times 25}$$

$$= \frac{(A - B) \times 0.0014 \times 4 \times E}{P \times \text{sp gr}}$$

### Wort Analysis – Wort Soluble Protein

A = mL 0.1*N* H<sub>2</sub>SO<sub>4</sub>

B = mL 0.1*M* NaOH

E = % extract in malt, dry basis

sp gr = specific gravity for wort of 8.256 °Plato

#### Results

Wort *N*, %

Wort protein, %

Wort *N* % dry

Wort protein % dry

Example:

$$\text{Wort } N, \% = \frac{(50 - 35.8) \times 0.0014 \times 4}{1.03285}$$

$$= 0.077$$

$$\text{Wort protein, \%} = 0.077 \times 6.25$$

$$= 0.48$$

$$\text{Wort } N, \% \text{ of malt, dry basis}$$

$$= \frac{(50 - 35.8) \times 0.0014 \times 4 \times 76.2}{8.256 \times 1.03285}$$

$$= 0.71$$

$$\text{Wort protein, \% of malt, dry basis}$$

$$= 0.71 \times 6.25$$

$$= 4.44$$