

## Kjeldahl (nitrogen/protein)

### Functional Principle:

Method of determination of the nitrogen content.

In the classical approach to include an accurately weighed amount of sample (0.5 to 3 g, depending on the nitrogen content) with sulfuric acid in a Kjeldahl flask on. The organic fractions of the sample are removed and converted the nitrogen into ammonium sulfate. The addition of a strong base liberates ammonia from the digestion solution, which is collected in acid and determined by titration. This is specified as Total Kjeldahl Nitrogen.

The nitrogen content obtained by this method is related to the protein content of a biological sample.

The analytically determined nitrogen content of a sample should be multiplied by the factor 6.25 (there are exceptions).

### Vapodest 10 - Co. Gerhardt

- digestion unit – Co. Beer
- turbosog for neutralization of acid fumes
- distillation unit
- titrator

