



# (N-Protein) determination in Food, Feed, Forages, Fertilizers and Milled Products

The EuroVector EA3100 Elemental Analyser is a modern environmentally friendly alternative to the Kjeldahl Method. The analyser complies with AOAC, ASBS, AOCS, AACC recommendations for a variety of samples for accurate analytical results:

AOAC Association of Official Agricultural Chemists	ASBS America Society of Brewing Chemists	AOCS American Oil Chemists Society	AACC American Association of Cereal Chemists
Food	Barley	Oil seeds	Cereals
Animal feed	Malt	Sunflowers	Cereal products
Forage	Brewer grain	Syrup	Corn
Milled products	Wort	Cotton seeds	Grain

Instrument provides results as Total N%. Protein % content is obtained by multiplying Total N% for 6,25 or 6,28 as specific factor for a vast majority of samples categories. The instrument provides the most accurate results: sample including N% between 0.05% ÷ 6.50% shows absolute Standard Deviation (SD) between  $\pm 0.005$  ÷ 0.030.

Each analysis is completed in 150 sec. AutoSampler allows to add samples any time during automatic sequence protecting results from air contamination, taking advantage from EuroVector patented true "Instant Zero Blank".

Weaver<sup>NET</sup>, the most advanced software dedicated to EA, stores and reprocesses an unlimited number of samples. Optimal sample weigh used is around 15÷50 mg or more. The EA3100 Analyser performs automatic gas leak test, wake up routine and Auto-Ready prompting for routine maintenance. Either liquid, solid and non-homogeneous samples are analysed in a variety of matrices.





INSTRUMENTATION	SAMPLE
EA3100 - N-Prot analysis time: 150 sec.	Solid or Liquid
Calibration Std: EDTA	Weight: 15 ÷ 50 mg or more

#### Typical Results (6 replicates)

SAMPLE	N%	Prot%
Soy sauce	0.974 ± 0.009	6.087 ± 0.056
Milk powder	3 . 695 ± 0.018	23.094 ± 0.112
Wheat flour	2.083 ± 0.014	13.019 ± 0.087

Milk powder and dairy products results can be affected by variable fat content.

EuroVector maintains expertise on customer's applications for analytical support: the most representative samples have been grouped as "Samples by Category" providing a series of Application notes for each category.



Biomass,  
Biofuel,  
Wastes



Soils,  
Sediments,  
Rocks



Plants,  
Branches  
leaves,  
Roots,  
Vegetables



Food, Feed  
Oil seeds,  
Sunflowers,  
Cereals,  
Corn,  
Brewing malt...



Coal,  
Coke,  
Peat



Petroleum,  
Lubricants



Organics,  
Synthetic,  
Compounds,  
Polymers  
textiles,  
Pharma,  
Fertilizers