DATA BULLETIN

CN analysis of wood and plant material with the vario MACRO cube

CN determination in wood and plant material requires relatively high sample weights due to the inhomogeneity of the samples. The vario MACRO cube is optimized for the analysis of large sample weights.

Different wood and plant samples were analyzed using the vario MACRO cube. The samples were weighed into tin foil cups and analyzed five times. The average CN content and absolute standard deviation are given below.

SAMPLE	C [%]	N [%]
wood pellets	47.0 ± 0.06	0.053 ± 0.008
coarse colza meal	58.0 ± 0.16	3.29 ± 0.015
raw wheat	40.1 ± 0.14	2.02 ± 0.171
plant material	49.2 ± 0.01	1.68 ± 0.011
starch	39.8 ± 0.05	0.058 ± 0.009

The results show that the CN content in all samples could be analyzed with a high precision.

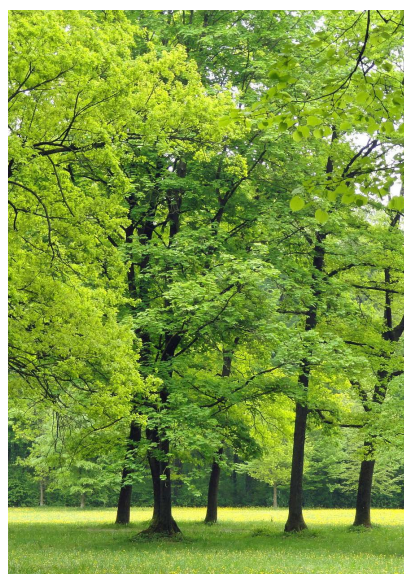Due to the high possible sample weight, the vario MACRO cube is very well suited for CN analyses of wood and plant material.