Task:

Application field: Food

Material: Cabbage (Cauliflower, white cabbage)

Feed size: 0-100 mm (after manual pre-cutting)

Feed quantity: 1000 g (for each sample)

Material specification(s): moist, fibrous

Customer requirement(s): homogeneous sample

Subsequent analysis: Vitamin Determinatin, determination of pesticides

Solution:

Selected instrument(s): Knife Mill Grindomix GM 300

Configuration(s): Cutting container of plastic incl. knife holder, autoclavable, 5 litres for GM 300; Standard lid of plastic GM 300, autoclavable

Parameter(s): Revolution speed pre-grinding: 1000 rpm , direction cut fine-grinding: 3000 rpm, direction cut

Time: 30 s (for each sample, for pre- and fine-grinding)

Achieved result(s): homogeneous sample, < 1 mm

Remark(s): During the manual pre-cutting care has to be taken to quarter the stem. Prior to fine grinding 750 ml water are added to the sample.

Recommendation: The Knife Mill Grindomix GM 300 is suitable to homogenize the sample material under the above mentioned conditions.
Pictures of the sample

Fig. 1: Cauliflower after manual pre-cutting

Fig. 2: White cabbage after manual pre-cutting

Fig. 3: Pre-cut cauliflower in GM 300

Fig. 4: White cabbage after fine grinding in GM 300

Fig. 5: White cabbage after fine grinding in GM 300

The application report is based solely on the processing of the available sample material in the indicated amount. No legal claims shall be derived from this test report. Subject to technical modification and errors.

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