Task:

Application field: Agriculture

Material: Straw, length 100-500 mm

Feed size: < 10 mm, after pre cutting in SM 100

Feed quantity: 150 g (approx.)

Material specification(s): fibrous, dry

Customer requirement(s): Disintegration to fine particle sizes for extraction of lactid acid and lactid salts;

Subsequent analysis: Chemical extraction

Solution:

Selected instrument(s): SM 100 Cutting Mill
                  ZM 200 Ultra Centrifugal Mill

Configuration(s): Push-fit rotor with 12 teeth of stainless steel;
                  ring sieve of stainless steel 0.5 mm cyclone with passage receptacle 3-l of stainless steel;

Parameter(s): Revolution speed 18000 rpm

Time: 3 min. for fine grinding

Achieved result(s): Predominantly < 0.5 mm

Remark(s): The total straw sample of approx. 5 liter was first pre cutted in the Cutting Mill SM 100. In a second step a representative single sample was used for fine grinding.

Recommendation: For the pre-cutting of fibrous, dry straw samples the Cutting Mill SM 100 is suitable and for the following fine grinding the Ultra-Centrifugal Mill ZM 200 is suitable under the above mentioned conditions.

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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