Test Report.

Retsch

Report No.: 11783

Task:

Application field:	Biology
Material:	**Pig´s ears (dried)**
Feed size:	**50 x 120 mm (after manually pre-cutting)**
Feed quantity:	70 g per ear
Material specification(s):	medium-hard, tough
Customer requirement(s):	< 0.5 - 1 mm
Subsequent analysis:	Residue analysis

Solution:

Selected instrument(s):	**Heavy-Duty Cutting Mill SM 2000** **As the ZM 200 was discontinued we recommend to use the ZM 300 with the same settings now** **Ultra Centrifugal Mill ZM 200**
Configuration(s):	SM 2000: 6-disc rotor, stainless steel; bottom sieve 6 mm, stainless steel ZM 200: Push-fit rotor, 12 teeth, stainless steel; ring sieve trapezoid holes 0.75 mm, stainless steel
Parameter(s):	Revolution speed SM 2000: approx. 700 rpm Revolution speed ZM 200: 18000 rpm
Time:	ca. 2 - 3 min. (total grinding time)
Achieved result(s):	Predominantly < 0.5 mm
Remark(s):	The preparation was done in two steps 1. pre cutting in SM 2000 2. fine grinding in ZM 200
Recommendation:	For sample preparation of tough materials, the Heavy-Duty Cutting Mill SM 2000 and the Ultra Centrifugal Mill ZM 200 are suitable under the above mentioned conditions.

Pictures of the sample

Fig. 1: Original sample size 150 x 160 mm

Fig. 2: Pre-cutted sample size 50 x 120mm

Fig. 3: After pre-grinding in SM 2000

Fig. 4: After fine grinding in ZM 200