## Task:

**Application field:** Agriculture

**Material:** Soya and lupine beans

**Feed size:** 10-15 mm

**Feed quantity:** 100 g

**Material specification(s):** hard

**Customer requirement(s):** < 150 µm, no further informations

**Subsequent analysis:** Determination of fat content

## Solution:

**Selected instrument(s):** Ultra Centrifugal Mill ZM 200

**Configuration(s):** Push-fit rotor, 12 teeth, stainless steel; Ring sieve square holes 10 mm, stainless steel; Ring sieve trapezoid holes 0.5 mm, stainless steel

**Parameter(s):** Revolution speed 18000 rpm

**Time:** 5 min. (for the total sample preparation)

**Achieved result(s):** 85 % < 150 µm

**Remark(s):** Because of the very hard properties, the beans should be prepared in two steps:
1. Pre grinding, using a ring sieve of 10 mm square holes
2. Fine grinding, using a ring sieve of 0.5 mm trapezoid holes
Using sieves with aperture sizes < 0.5 mm will increase heating.

**Recommendation:** For sample preparation of different hard beans 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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