Task:

Application field: Agriculture

Material: Wheat seeds

Feed size: 4-5 mm

Feed quantity: 80 g

Material specification(s): medium-hard, dry

Customer requirement(s): < 100 µm
The sample preparation should be done in PM 100 with grinding set 250 ml Agate

Subsequent analysis: AAS Atomic Absorption-Spectroscopy

Solution:

Selected instrument(s): PM 100 Planetary Ball Mill

Configuration(s): Grinding jar 250 ml agate;
5 grinding balls ø 30 mm agate

Parameter(s): Revolution speed 500 rpm

Time: 10 min.

Achieved result(s): 95 % < 100 µm

Remark(s): Extension of the grinding process will increase the final fineness. Grinding tests under the conditions of agate grinding balls ø 10 mm are not recommendable.

Recommendation: For sample preparation of wheat and similar products, the Planetary Ball Mill PM 100 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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