

Task:

Application field: Medicine / Pharmaceuticals

Material: Algae, dry

Feed size: 3-7 mm

Feed quantity: 110 g

Material specification(s): temperature sensitive, brittle

Customer requirement(s): 200 mesh approx. (75 µm);
no temperature increase

Subsequent analysis: Not defined

Solution:

As the ZM 200 was discontinued we recommend to use the ZM 300 with the same settings now

Selected instrument(s): ZM 200 Ultra Centrifugal Mill
DR 100 / 40 Vibratory Feeder

Configuration(s): Push-fit rotor with 24 teeth;
Distance sieve of stainless steel with Conidur holes of 0.25 mm;
Cyclone with passage receptacle, holder and collecting receptacle 5 l

Parameter(s): Revolution speed 18000 rpm

Time: 10 min.

Achieved result(s): 60 % < 75 µm

Remark(s): If distance sieves with smaller hole sizes are used, the temperature increases due to higher friction. The sample must be fed slowly to avoid a temperature increase using the Vibratory Feeder DR 100.

Recommendation: For the grinding of temperaturesensitive, brittle and dry algae our Ultra-Centrifugal Mill ZM 200 is suitable under the above mentioned conditions.