

**Task:****Application field:** Medicine / Pharmaceuticals**Material:** Collagen**Feed size:** 1 – 40 mm**Feed quantity:** 1 g**Material specification(s):** Fibrous, temperature sensitive**Customer requirement(s):** < 50 µm, 1 g**Subsequent analysis:** Particle Size Analysis**Solution:****Selected instrument(s):** CryoMill**Configuration(s):** Grinding jar 25 ml, zirconia for CryoMill, 1 grinding ball Ø 20 mm, zirconia**Parameter(s):** Frequency 25 Hz**Time:** Automatic pre-cooling  
Grinding 7 cycles 4 min, intermediate cooling 45 s**Achieved result(s):** 6 cycles of 4 min: d90 = 52 µm  
7 cycles of 4 min: d90 = 23 µm**Remark(s):** After grinding slight sticking at jar wall and balls has to be expected.**Recommendation:** The CryoMill is suitable to grind the sample material under the above mentioned conditions.

### Pictures of the sample



**Fig. 1:** Original sample



**Fig. 2:** Sample after grinding in the CryoMill

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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