

Report No.: Date: Contact:

16097 25.02.2013 GB

Task:	
Application field:	Biology
Material:	Bones
Feed size:	75 mm
Feed quantity:	50 g (BB 50), 2 x 10 g in MM 400
Material specification(s):	dry
Customer 2 requirements(s):	200 μm
Subsequent analysis:	DNA analysis, radiocarbon dating (C14)
Solution	
Sciected	Jaw Crusher BB 50 Mixer Mill MM 400
Configuration(s)	1 x Jaw Crusher BB 50 200-240 V, 50/60 Hz breaking jaws of manganese steel wearing sheets of stainless steel
:	1 x MM 400, 100-240 V, 50/60 Hz
	2 x Grinding jar, zirconium oxide, 35 ml, screw top design
	2 x Grinding ball, zirconium oxide, 20 mm ø
	Please note: Other electrical versions of the instrument(s) are available with different item numbers.
	BB 50: Gap width 2 mm MM 400: Frequency 25 Hz
	BB 50: < 1 min MM 400: 3 min
Achieved result(s):	BB 50: < 3 mm MM 400: predominantly < 200 µm
	BB 50: The whole sample is ground to < 3 mm. MM 400: For fine grinding a representative part sample of 10 g and 1 grinding ball are filled into each grinding jar. To avoid discoloration zirconia grinding tools have been used for fine grinding.
	The Jaw Crusher BB 50 and Mixer Mill MM 400 are suitable to grind the sample material 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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Pictures of the sample:



Picture 1: Original sample



Picture 2: Sample after primary size reduction in BB 50



Picture 3: Sample after comminution in MM 400

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