Task:

Application field: Food

Material: Almonds

Feed size: 1-15 mm

Feed quantity: 500 g

Material specification(s): containing grease

Customer requirement(s): homogeneous sample

Subsequent analysis: Determination of pesticides

Solution:

Selected instrument(s): Knife Mill Grindomix GM 300

Configuration(s): Cutting container of plastic incl. knife holder, autoclavable, 5 litres for GM 300; Standard knife GM 300 made of stainless steel, autoclavable; Standard lid of plastic GM 300, autoclavable

Parameter(s): Revolution speed  
Pre-grinding 3000 rpm, interval 5 sec  
Fine-grinding 5000 rpm

Time: 70 s (20 sec pre- + 50 sec fine-grinding)

Achieved result(s): Homogeneous sample

Remark(s): Pre-grinding for 20 sec, 5 sec interval, at 3000 rpm with direction cut. Afterwards fine-grinding for additional 50 sec at 5000 rpm with direction cut

Recommendation: The Knife Mill Grindomix GM 300 is suitable to homogenize the sample material under the above mentioned conditions.
Pictures of the sample

**Fig. 1:** Original sample almonds

**Fig. 2:** Almonds after fine-grinding in GM 300

**Fig. 3:**

**Fig. 4:**