

Small scale grain grinding using Precellys® Evolution thanks 2mL, 7mL, 15mL tubes.

CONTEXT

Precellys® homogenizers range is widely applied in laboratories for biological analysis. Now thanks the versatility (2mL; 7mL; 15mL tubes) of Precellys® Evolution, a small scale grain powder can be performed. Precellys® Evolution can grind dry grain (sesame, walnut, rice, beans, peanuts, barley, oats, wheat, lentils, soybeans, etc...), dry spices (chili, pepper, fennel, etc...), dry herbs and other materials into fine powder with no-cross contamination.

MATERIAL

- Precellys® Evolution homogenizer.
- Precellys® lysing kit: CKMix50_2mL (KT03961-1-013.2); CKMix50_7mL (KT03961-1-306.7); CK68_15mL (KT03961-1-514.15).
- Samples: 0,2g into 2mL tubes; 1g into 7mL tubes or 4g into 15mL tubes of grains of rice and wheat.
- No buffer (Dry grinding).

PROTOCOL

	Rice	Wheat
0.2g	7200rpm, 1x30sec	7200rpm, 1x30sec
1g	7200rpm, 1x30sec	7200rpm, 2x30sec (2min break)
4g	7200rpm, 3x30sec (2min break)	7200rpm, 4x20sec (2min break)

- A large rang of analysis can be performed from an aliquot of powder.



03712-810-0097

RESULTS

With the Precellys® Evolution, 200mg, 1g or 4g of grain are efficiently grinded under dry conditions in 2mL, 7mL and 15mL Precellys® lysing kit before any downstream analysis (Figure 1).

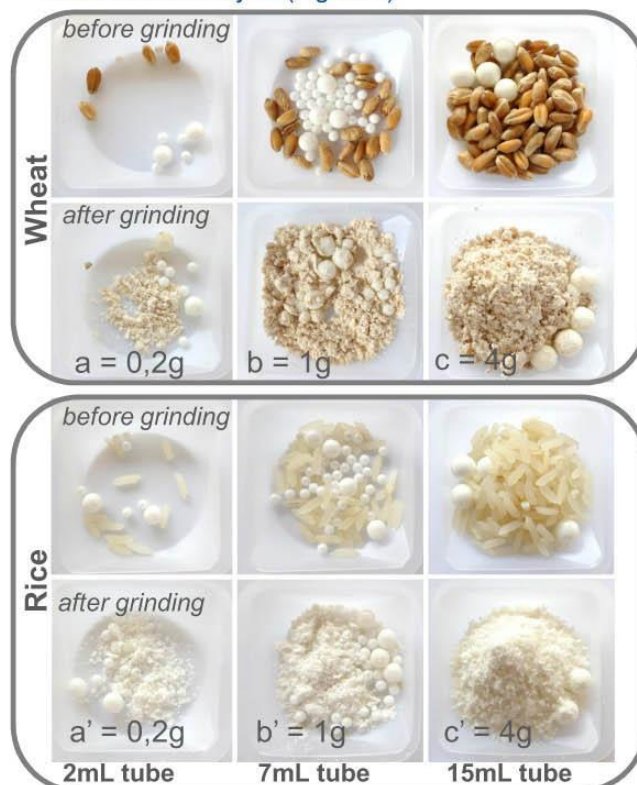


Figure 1: 0,2g (a) 1g (b) or 4g (c) of wheat or rice (') grains before and after grinding using Precellys® Evolution into 2mL (a), 7mL (b) or 15mL (c) Precellys® lysing kit.

CONCLUSION

Precellys® Evolution homogenizer is the ideal tool to quickly grind small scale **dry samples** (grain, spices, herbs, other materials) **into fine powder** with no cross-contamination **thanks single tubes (2mL, 7mL, 15mL)** before any downstream analysis.

Precellys® Evolution is a **versatile, efficient and high-throughput homogenizer** that can process up to 6 samples of 15mL tubes, 12 samples of 7mL tubes or 24 samples of 2mL (or 0,5mL) tubes at the same time.




エムエス機器株式会社

<http://www.technosaurus.co.jp>

□東京 〒162-0805 東京都新宿区矢来町 113 番地 TEL (03) 3235-0661(代) / FAX (03) 3235-0669
 □大阪 〒532-0005 大阪市淀川区三国本町2丁目12番4号 TEL (06) 6396-0501(代) / FAX (06) 6396-0508
 □福岡 〒812-0054 福岡市東区馬出 1 丁目 2 番 23 号 TEL (092) 631-1012(代) / FAX (092) 641-1285