HAIR GRINDING IN 7ML TUBE



Bertin Technologies

CONTEXT

Forensic or Toxicology laboratories experience difficulties with extraction due to the high energy needed to grind hard samples such as hair. The Precellys homogenizers provide high speed sample disruption based on beadbeating technology for the extraction of DNA, proteins, and drugs. In combination with Precellys, the Lysing Kit MK28R_2mL can grind perfectly up to 200 mg of hair.

But in some cases, laboratories need to grind a larger quantity of hair. This study aimed at developing a protocol for the grinding of 1 to 2 grams of hair in a 7mL tube.

MATERIALS

- · Precellys® Evolution
- Precellys® lysing kit: MK28 beads in bulk (KT03961-1-101.BK) + 7 mL empty tubes (KT03961-1-404.7)
- · Sample: 1g of 1cm pre-cut hair

PROTOCOL

- Place 15 MK28 beads inside a 7 mL tube
- Add 1g of 1cm pre-cut hair into the tube
- Precellys® Evolution: 7200 rpm 3 x 20s (20s of break)

RESULTS

After 3 runs of 20s on the Precellys® Evolution, the hair is fully ground.



1g of hair before grinding



1g of hair after grinding with Precellys® (7200 rpm - 3 x 20s (20s of break))

CONCLUSION

0

Used in conjunction with Precellys® Homogenizers, the new Lysing Kit MK28 7mL efficiently grinds large quantities of hair with highly reproducible results. Also, a large amount of hair is easily loaded into the 7mL tubes, which is important for routine toxicology work.

して 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

3712-810-DU109