



100PR

G-Biosciences ♦ 1-800-628-7730 ♦ 1-314-991-6034 ♦ technical@GBiosciences.com

A Geno Technology, Inc. (USA) brand name

EZ-Grind™

Grinding Resin Tubes with Matching Pestles

(Cat. # 786-139)



think proteins! think G-Biosciences www.GBiosciences.com

INTRODUCTION

EZ-Grind™ has been specifically developed for effectively grinding small biological samples for proteins and DNA extraction. The resin supplied in the tube contains neutral, high tensile and abrasive micro-particles that effectively disrupt the tissue or cell samples and help in the extraction of all soluble proteins in the extraction buffer. Proteins and nucleic acids do not bind to the resin that can be used effectively grind most animal/plant tissues and cells. Unlike sand or other grinding materials, EZ-Grind™ is very convenient to work with and does not damage high molecular mass proteins. We routinely use it for extraction of proteins, nucleic acids from different biological samples.

ITEM(S) SUPPLIED (Cat. # 786-139)

Description	Size
EZ-Grind™ Resin Tubes with Matching Pestle	2 x10

STORAGE CONDITION

Shipped at ambient temperature. Store at room temperature or 4°C in presence of extraction buffer of choice.

PROTOCOL

1. Pellet the EZ-Grind™ resin by centrifuging the tubes at $\approx 14,000g$ for 30 seconds and remove the supernatant.
2. Add 200 μ l extraction buffer to the resin.
3. Vortex the tube to equilibrate and wash the resin.
4. Centrifuge at $\approx 14,000g$ for 30 seconds and remove the supernatant.
5. Add 1-100mg tissue sample to the EZ-Grind™ tubes.
6. Add 250 μ l extraction buffer of choice to the EZ-Grind™ tubes.
NOTE: Ensure the extraction buffer has a suitable protease inhibitor cocktail added before beginning the grinding.
ProteaseArrest (Cat. # 786-108) is an excellent general protease inhibitor cocktail.
7. Grind the sample with the supplied matching EZ-Grind™ Pestle.
NOTE: The grinding time will vary for different tissue samples. Additional extraction buffer (100-250 μ l aliquots) may be added to the grinding tube.
8. After grinding, centrifuge the tubes for 10 minutes at $\approx 14,000g$ to pellet the resin and cellular debris.
9. Transfer the supernatant to a clean tube, without disturbing the pellet.
10. The protein extract is now ready for further analysis by SDS-PAGE, IEF/2D-Electrophoresis or other downstream process.
NOTE: Our PAGE-Perfect (Cat. # 786-123) and Perfect-FOCUS (Cat. #786-124) kits are recommended to remove interfering substances and clean the

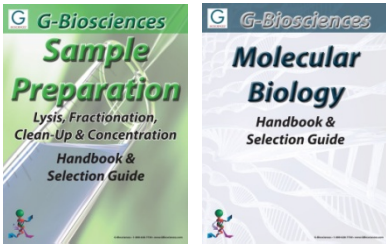
extracted protein for improved results with SDS-PAGE and IEF/2D respectively.

CITATIONS

1. Kern, T. et al (2007) Diabetes. 56: 373
2. Iordanskiy, S. et al (2006) Retrovirology. 3:4

RELATED PRODUCTS

Download our Sample Preparation and Molecular Biology Handbooks.



<http://info.gbiosciences.com/complete-protein-sample-preparation-handbook>

<http://info.gbiosciences.com/complete-molecular-biology-handbook/>

For other related products, visit our website at www.GBiosciences.com or contact us.

Last saved: 10/4/2012 CMH



www.GBiosciences.com