



Technical Note:

Tips & Tricks for Getting the Most out of Your Roller Drum System

Usage & Optimization

- **Load Balance Matters:** Always distribute tubes evenly to prevent wobbling, prevent uneven bearing wear and extend the life of the motor.
- **Speed Selection:** Use slower speeds for gentle mixing (e.g., blood samples) and higher speeds for viscous solutions.
- **Mixing Time:** Allow a few extra minutes of rolling for thorough blending.
- **Tube Size Flexibility:** Use adapters to expand compatibility with different tube sizes.

Maintenance & Care

- **Keep it Clean:** Wipe rollers with mild detergent or 70% ethanol. Avoid harsh solvents.
- **Check for Wear:** Regularly inspect rollers for flat spots or damage.
- **Lubrication Reminder:** Some models require periodic lubrication of moving parts.
- **Storage Tip:** Unplug and cover when not in use to prevent dust build-up.

Pro Tips

- **Angle Adjustment:** Tilt the drum slightly to improve mixing efficiency.
- **Warm Up Samples:** Let refrigerated samples warm briefly to avoid condensation issues.
- **Consistent Replicates:** Use the same speed and time for reproducible results.
- **Dual Use:** Roller drums can also help degas solutions gently.

Applications

- **Cell Culture Media Prep:** Gentle rolling keeps solutions oxygenated.
- **Hybridization Techniques:** Provides consistent, low shear mixing.
- **Bead/Resin Coating:** Ensures even distribution.
- **Long-Term Gentle Mixing:** Ideal when magnetic stir bars generate too much shear.

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