

BIOREACTOR TUBES

vs. SHAKE FLASKS



BIOREACTOR TUBES

- Available in 15, 50, 450 mL and 600 mL sizes.
- Increased gas transfer due to cyclonic effect.
- Max fill volume is 50-66%.
- No transfer steps, centrifuge in tube.
- Cost less than shaking flasks.
- Reduced shear and no foam at any speed.
- Increased cell production and rate of growth.



SHAKE FLASKS

- Available in a variety of sizes between 125 mL and 7 Liters.
- Max fill volume is limited to 20-30%.
- Transfer step prior to centrifugation.
- Greater shear forces and foam production.
- Gas transfer limited by narrow bottle neck.
- Harder to hold more than 2 at a time.

CULTIVATED CELL TYPES

(Not exclusive to below)

Mammalian Cell Lines:

- NSO (Murine Myeloma Cells)
- CHO (Chinese Hamster Ovary)
- Hek293 (Human Embryonic Kidney)
- BHK-21 cells (Baby Hamster Kidney)
- Hybridoma Cells
- Sf0/SF21

Bacteria Cell Lines:

- E. Coli
- B. Subtilis
- Brevibacterium

Yeast:

- S. cerevisiae
- Pichia pastoris

Fungi:

- Aspergillus niger
- Morietterella alpine
- Plant cells / Algae

CELL LINE SPECIFIC RECOMMENDATIONS

	MAMMALIAN CELL CULTURE		INSECT CELLS	BACTERIA
TubeSpin Bioreactor 15 (TP87015)	CHO	Hek-293	SF-9	E. Coli
Shaking Speed RPM	200-300	200-300	200-300	200-300
Shaking Diameter mm	50	50	50	50
Working Volume mL	1.5-6 mL	1.5-6 mL	1.5-6 mL	1.5-6 mL
TubeSpin Bioreactor 50 (TP87050)	CHO	Hek-293	SF-9	E. Coli
Shaking Speed RPM	180-250	180-250	180-250	180-250
Shaking Diameter mm	50	50	50	50
Working Volume mL	15-30	15-30	5-10	15-30



GENERAL RECOMMENDATIONS

ITEM #	TP87015	TP87017	TP87050	TP87056	TP87450	TP87600
Volume mL	15	15	50	50	450	600
Max. RCF G	15,500	15,500	15,500	15,500	3,500	3,500
Form	Conical	Round	Conical	Round	Conical	Conical
Orbit mm	50	50	50	50	50	50
Fill volume mL	1-10	1-10	5-35	5-35	>300	>400
Shaker Speed RPM	250	250	180	180	150	150
Qty	800/cs	800/cs	180/cs	180/cs	32/cs	26/cs



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