

Fast. Efficient. BioSafe*.

Rotors for the Optima MAX-XP Tabletop Ultracentrifuge

Blood Banking
Capillary Electrophoresis
Centrifugation
Flow Cytometry
Genomics
Lab Automation
Lab Tools
Particle Characterization



MLA-150 Titanium Fixed-Angle Rotor

With the lowest k Factor available, the MLA-150 brings unmatched efficiency to your Optima MAX-XP. This dynamic rotor is excellent for rapid pelleting.



MLA-130 Titanium Fixed-Angle Rotor

The MLA-130 quickly accelerates up to a maximum force of over 1,000,000 $\times g$, making it a strong choice for rapid pelleting applications.



TLA-110 Titanium Fixed-Angle Rotor

The TLA-110 offers the perfect blend of capacity and performance. Its labware compatibility and BioSafe* properties offer exceptional versatility for a wide range of applications.



MLA-50 Aluminum Fixed-Angle Rotor

With a 6 \times 32 mL capacity, the MLA-50 brings an unsurpassed combination of capacity and performance to your Optima MAX-XP. Perfect for large-volume applications.



MLS-50 Aluminum Swinging-Bucket Rotor

The long pathlength of the MLS-50 makes it ideal for rate-zonal separations and applications that require a flat pellet.



Expand the versatility of your Optima MAX-XP

with a spectrum of rotor choices to meet your research needs. Whether separating virus particles, subcellular organelles, DNA, RNA, lipoproteins or nanoparticles, you'll find an Optima MAX-XP rotor specially designed for your application. For a complete solution, choose labware from our vast selection of tubes and accessories.

Ordering Information

Rotors	Max RPM	Max Force x g	k Factor ^{##}	Max Rotor Capacity (mL)	Largest Capacity Tube Size [‡]	g-Max or adapters for smaller volumes yes/no	Rotor Order Number
Fixed-Angle							
MLA-150	150,000	1,003,000	10.4	16	8 x 2.0 mL 11 x 32 mm	Yes	393490
MLA-130	130,000	1,019,000	8.7	20	10 x 2.0 mL 11 x 32 mm	Yes	367114
TLA-120.1	120,000	627,000	8	7	14 x 0.5 mL 8 x 34 mm	No	357655
TLA-120.2 [†]	120,000	627,000	8	20	10 x 2.0 mL 11 x 34 mm	Yes	357656
TLA-110 [†]	110,000	657,000	13	40.8	8 x 5.1 mL 13 x 56 mm	Yes	366735
TLA-100	100,000	436,000	7	4	20 x 0.2 mL 7 x 20 mm	No	343837
TLA-100.3	100,000	541,000	14	21	6 x 3.5 mL 13 x 51 mm	Yes	349490
MLA-80	80,000	444,000	29	64	8 x 8.0 mL 16 x 64 mm	Yes	367096
MLA-55	55,000	287,000	53	108	8 x 13.5 mL 16 x 76 mm	Yes	A31459
TLA-55 [†]	55,000	186,000	66	18	12 x 1.5 mL 11 x 38 mm	No	366725
MLA-50	50,000	233,000	92	194.4	6 x 32.4 mL 25 x 77 mm	Yes	A91774
Swinging-Bucket							
TLS-55 [†]	55,000	259,000	50	8.8	4 x 2.2 mL 11 x 34 mm	Yes	346134
MLS-50	50,000	268,000	71	20	4 x 5.0 mL 13 x 51 mm	Yes	367280
Near-Vertical Tube							
TLN-120	120,000	585,000	7	9.6	8 x 1.2 mL 8 x 35 mm	No	357683
TLN-100	100,000	450,000	14	31.2	8 x 3.9 mL 13 x 38 mm	Yes	357614
MLN-80	80,000	389,000	20	64	8 x 8.0 mL 16 x 58 mm	Yes	367100

Chart lists maximum force for each rotor when run at its maximum speed in an ultracentrifuge capable of achieving that speed.

For more information, visit beckmancoulter.com/centrifuge

* BioSafe and BioSafety are terms intended to describe the enhanced biocontainment features of our products.

‡ Please see our catalog for a complete listing of available tube sizes.

The k Factor is calculated based on the cell hole dimensions of the rotor cavity, and will vary for each tube based on the tube height and fill volume. For more information please refer to our catalog.

† This rotor is BioCertified. BioCertified is a term used to describe our products which have been tested and validated to demonstrate containment of microbiological aerosols by an independent, third-party facility (Health Protection Agency, Porton Down, UK or USAMRIID, Ft. Detrick, MD, USA). Improper use or maintenance may affect seal integrity and, thus, containment.

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