

Tubes available for 70.1Ti and SW40 Ti rotors, with speed and volume specifications for each tube

70.1 Ti

Table 1 Available Tubes and Bottles for the Type 70.1 Ti Rotor

Tube				Required Accessory		Max Speed/ RCF/ <i>k</i> Factor
Dimensions	Description	Part Number	Max Fill Vol	Description	Part Number	
16 × 76 mm	Quick-Seal Ultra-Clear	344322 (pkg/50)	13.5 mL	red aluminum spacer	342695	70 000 rpm 450 000 × <i>g</i> 36
16 × 76 mm	Certified Free & Sterile Polypropylene Quick-Seal	C14306 Carton of 48 (8 packs of 6)	13.5 mL	red aluminum spacer	342695	70 000 rpm 450 000 × <i>g</i> 36
	Certified Free Polypropylene Quick-Seal	C14290 (pkg/50)				
	Standard Polypropylene Quick-Seal	342413 (pkg/50)				
16 × 76 mm	Ultra-Clear	344085 (pkg/50)	13.5 mL	titanium cap (use the red silicone O-ring)	341968	70 000 rpm 450 000 × <i>g</i> 36
16 × 76 mm	thinwall polypropylene	326814 (pkg/50)	13.5 mL	titanium cap (use the black Buna N O-ring)	341968	70 000 rpm 450 000 × <i>g</i> 36
16 × 76 mm	thickwall polypropylene	355640 (pkg/25)	9.3 mL (capped) 8 mL (w/o cap)	aluminum cap	338907 ^a	30 000 rpm 82 700 × <i>g</i> 199

Table 1 Available Tubes and Bottles for the Type 70.1 Ti Rotor (Continued)

Tube				Required Accessory		Max Speed/ RCF/ k Factor
Dimensions	Description	Part Number	Max Fill Vol	Description	Part Number	
16 × 76 mm	thickwall polycarbonate	355630 (pkg/25)	9.3 mL (capped) 8 mL (w/o cap)	aluminum cap	338907 ^a	50 000 rpm ^b 230 000 × g 71
16 × 76 mm	polycarbonate bottle and cap assembly	355603 (pkg/6)	10.4 mL	—	—	65 000 rpm ^c 388 000 × g 42
	bottle only	355651		Noryl ^d cap	335257	
16 × 67 mm	Quick-Seal polypropylene bell-top	344622 (pkg/50)	10 mL	Noryl spacer	344676	70 000 rpm 450 000 × g 34
16 × 60 mm	OptiSeal bell-top ^e	361623 (pkg/56)	8.9 mL	amber Ultem ^f spacer	361670 (pkg/2)	70 000 rpm 450 000 × g 32
13 × 64 mm	Certified Free & Sterile Ultra-Clear Open-Top	C14296 Carton of 48 (8 packs of 6)	6.5 mL	Acetal adapter	303313	50 000 rpm 212 000 × g 60
	Certified Free Ultra-Clear Open-Top	C14280 (pkg/50)				
	Standard Ultra-Clear Open-Top	344088 (pkg/50)		aluminum cap	346256 ^g	
13 × 64 mm	thinwall polypropylene	326820 (pkg/50)	6.5 mL	Acetal adapter	303313	50 000 rpm 212 000 × g 60
				aluminum cap	346256 ^g	
13 × 64 mm	stainless steel	301099	6.5 mL	Acetal adapter	303313	40 000 rpm ^h 147 000 × g 112
				aluminum cap	305022	
16 × 45 mm	Quick-Seal polypropylene bell-top	345830 (pkg/50)	6.3 mL	Noryl floating spacer	303448	70 000 rpm 450 000 × g 24
16 × 38 mm	Quick-Seal polypropylene bell-top	356562 (pkg/50)	4.2 mL	Noryl floating spacer	345828	70 000 rpm 450 000 × g 17
13 × 64 mm	thickwall polypropylene	355644 (pkg/25)	4 mL	Acetal adapter	303313	50 000 rpm 212 000 × g 60
13 × 64 mm	thickwall polycarbonate	355645 (pkg/25)	4 mL	Acetal adapter	303313	50 000 rpm ^b 212 000 × g 60

Table 1 Available Tubes and Bottles for the Type 70.1 Ti Rotor (*Continued*)

Tube				Required Accessory		Max Speed/ RCF/ k Factor
Dimensions	Description	Part Number	Max Fill Vol	Description	Part Number	
13 × 41 mm	Ultra-Clear	344093 (pkg/50)	4 mL	Acetal adapter	303402	45 000 rpm 152 000 × g 58
				aluminum cap	346256 ^g	
8 × 49 mm	Ultra-Clear	344091 (pkg/50)	2 mL	Acetal adapter	303376	45 000 rpm 138 000 × g 63
				aluminum cap	303624	

- a. Cap is optional.
- b. Max speeds given are those which the tubes could withstand when tested at 25°C for 24 hours. Further tests have shown that the polycarbonate tubes can run at 70 000 rpm for 6 hours or at 65 000 rpm for 8 hours.
- c. For lower fill volumes (not less than 5 mL) centrifuge no faster than 60 000 rpm.
- d. Noryl is a registered trademark of GE Plastics.
- e. Includes disposable plastic plugs.
- f. Ultem is a registered trademark of GE Plastics.
- g. Cap assembly includes neoprene gasket (344672) and stem (346246).
- h. For solution densities of 2.0 g/mL and below; above 2.0, further speed reductions are required. Refer to publication L5-TB-072 before centrifuging stainless steel tubes.

SW40 TI

Table 1 Available Tubes for the SW 40 Ti Rotor^a

Tube			Required Accessory		Max Speed/ RCF/ k factor
Dimensions/ Nominal Volume/	Description	Part Number	Description	Part Number	
14 × 95 mm 14 mL	Certified Free & Sterile Ultra-Clear Open-Top	C14294 Carton of 48 (8 packs of 6)	none	—	40,000 RPM 285,000 × <i>g</i> 137
	Certified Free Ultra-Clear Open-Top	C14278 (pkg/50)			
	Standard Ultra-Clear Open-Top	344060 (pkg/50)			
14 × 95 mm 14 mL	Certified Free & Sterile Polypropylene Open-Top	C14303 Carton of 48 (8 packs of 6)	none	—	40,000 RPM 285,000 × <i>g</i> 137
	Certified Free Polypropylene Open-Top	C14287 (pkg/50)			
	Standard Polypropylene Open-Top	331374 (pkg/50)			
14 × 95 mm 11 mL	konical polypropylene	358121	adapter	358154	40,000 RPM 285,000 × <i>g</i> 137
14 × 89 mm 10 mL	konical open-top polypropylene	358120 (pkg/50)	adapter	358154	40,000 RPM 285,000 × <i>g</i> 124
14 × 89 mm 8 mL	Quick-Seal konical polypropylene	358649 (pkg/50)	adapter	358154	40,000 RPM 285,000 × <i>g</i> 107
			Noryl ^b floating spacer	355534	
14 × 47 mm 5.9 mL	Quick-Seal polypropylene	355537 (pkg/50)	Noryl floating spacer	355534	40,000 RPM 285,000 × <i>g</i> 61
14 × 48 mm 4 mL	Quick-Seal konical polypropylene	355580 (pkg/50)	adapter	358154	40,000 RPM 285,000 × <i>g</i> 56
			Noryl floating spacer	355534	
14 × 25 mm 3.5 mL	Quick-Seal polypropylene	355870 (pkg/50)	Noryl floating spacer	355534	40,000 RPM 285,000 × <i>g</i> 35

a. Use only the items listed here..

b. Noryl is a registered trademark of GE Plastics.