

6. Distillation, separation, filtration

Separating, centrifuging/Centrifuge tubes



1 Centrifuge tubes, round bottom, DURAN®

To DIN 58970 part 2. Glass Type I/neutral glass as per USP, EP and JP. Autoclavable. Maximum loading: 4000 xg rcf.

DWK Life Sciences

Capacity ml	Diam. mm	Height mm	PK	Cat. No.
6	12	100	1	9.315 010
12	16	100	1	9.315 011
25	24	100	1	9.315 014
50	34	100	1	9.315 017
80*	40	115	1	9.315 024
80	44	100	1	9.315 026
250*	56	147	1	9.315 036

* Not to DIN.



2 Centrifuge tubes, conical, DURAN®

Autoclavable. Rimless, with conical base. Maximum loading: 4000 xg rcf.

DWK Life Sciences

Volume ml	Diam. mm	Height mm	Angle	PK	Cat. No.
12	16	100	30	1	9.315 509
25	24	100	60	1	9.315 514
50	34	100	60	1	9.315 517



7.920 120

6.803 325

High speed centrifuge tube, borosilicate glass

Borosilicate glass. The tubes have been chemically strengthened to achieve a greater mechanical strength than standard borosilicate centrifuge tubes. These tubes can be centrifuged up to 13.100 RCF when used with an accessory rubber adapter sleeve in a 50 ml rotor cavity. They can withstand temperatures up to 300 °C. Autoclavable.

Description	Volume ml	Diam. mm	Height mm	PK	Cat. No.
without rim	15	18	102	6	6.803 323
without rim	30	24	106	6	6.093 022
screw thread	15	18	102	6	7.920 120 3
screw thread	30	24	106	6	6.234 247
Rubber adapter, 15 ml				2	6.803 324
Rubber adapter, 30 ml				2	6.803 325 4



5 Centrifuge tubes, glass, round bottom, graduated, DURAN®, Borosilicate glass 3.3

In white enamel, rimless. Maximum loading: 3500 xg rcf.

Volume ml	Diam. mm	Height mm	PK	Cat. No.
10 - 15	17	98	1	9.315 237
10 - 15	17	107	1	9.315 240
25	25	100	1	9.315 245



6 Centrifuge tubes, round bottom, AR glass®

Round bottom. Graduated or ungraduated. Maximum loading: 3500 xg rcf.

Volume ml	Diam. mm	Height mm	Graduations	PK	Cat. No.
10 - 15	17	98	no	1	9.315 201
10 - 15	17	107	no	1	9.315 203
10 - 15	17	98	yes	1	9.315 217
10 - 15	17	107	yes	1	9.315 220
25	25	100	yes	1	9.315 225
50 - 55	35	98	no	1	9.315 207
70 - 100	40	115	no	1	9.315 210

6. Distillation, separation, filtration Separating, centrifuging/Centrifuge tubes

1 Centrifuge tubes, AR-GLAS® or borosilicate glass 3.3., graduated

Graduations and inscriptions in high contrast white enamel.

BRAND

- Height: 113 mm
- Subdivision: 0.1 ml
- Wall thickness: 1 mm
- Outer diameter: 17 mm
- Maximum loading: 3500 x g rcf.
- Conical bottom

Nominal capacity ml	Material	Graduations ml	PK	Cat. No.
15	AR-GLAS®	0 - 10	1	9.315 415
15	Borosilicate glass 3.3.	0 - 10	1	9.315 417
15	AR-GLAS®	0 - 15	1	9.315 416
15	Borosilicate glass 3.3.	0 - 15	1	9.315 418

1



Centrifuge tubes, AR-GLAS®, ungraduated, rimless

- Wall thickness: 1 mm
- Maximum loading: 3500 x g rcf.

BRAND

Nominal capacity ml	Ext. diam. mm	Height mm	Base	PK	Cat. No.
11	16.5	98	cone-pointed	100	9.315 423
13	16.5	98	round	100	9.315 421 2

2



9.315 421

Centrifuge tubes, AR-GLAS® or borosilicate glass 3.3., ungraduated, with beaded rim

- Wall thickness approx.: 1 mm
- Maximum loading: 3500 x g rcf.
- Conical bottom

BRAND

Nominal capacity ml	Ext. diam. mm	Height mm	Material	PK	Cat. No.
15	17	113	AR-GLAS®	100	9.315 412 3
15	17	113	Boro 3.3.	100	9.315 413

3



9.315 412

4 ASTM centrifuge tube, cylindrical, with conical base, borosilicate glass 3.3

Cylindrical, with conical base. Graduations and labelling in high-contrast blue enamel. Maximum loading 700 xg rcf. Internal diam. neck approx. 17 mm.

Graduated, ml:	In subdivisions, ml:
0 to 0.5	0.05
0.5 to 2	0.10
2 to 3	0.20
3 to 5	0.50
5 to 10	1.00
10 to 25	5.00
25 to 100	25.0

Description	Capacity ml	Length mm	PK	Cat. No.
acc. to ASTM D 91	100	203	1	9.315 810
former standard ASTM D 96	100	167	1	9.315 820

4



1

1

ASTM centrifuge tube, pear-shaped with cylindrical base, borosilicate glass 3.3

Pear-shaped with cylindrical base. Former standard ASTM D 96. Capacity 100ml. Graduations and labelling in high-contrast blue enamel. Maximum loading 700 xg rcf. Internal diam. neck approx. 17 mm.

Graduated, ml:	In subdivisions, ml:
0 to 1.5	0.10
1.5 to 3	0.50
3 to 5	0.50
5 to 10	1.00
10 to 25	5.00
25 to 100	25.0

Capacity ml	PK	Cat. No.
100	1	9.315 815

2


6.256 488

ASTM Centrifuge Tubes for Oils, with conical base, borosilicate glass 3.3

Conical bottom centrifuge tube is used for testing of petroleum products. Scale and legend are durable white ceramic enamel except California type. Top is tooled to accept snap cap. Conforming to USP Type I and ASTM E438, Type I, Class A requirements.

DWK Life Sciences

Type	Capacity ml	Diam. mm	Length mm	Volume ml	Grad. ml	PK	Cat. No.
6" short cone, Oil	100	45	165	0-0,5 / 0,5-2 / 2-3 / 3-5 / 5-10 / 10-25 / 50 / 100	0,05 / 0,1 / 0,2 / 0,5 / 1 / 5 / - / -	1	6.256 488 2
8" Oil and weathering (end point index), ASTM D2158	100	37	203	0-1 / 1-3 / 3-6 / 6-10 / 10-100	0,05 / 0,1 / 0,2 / 0,5 / 1	12	6.289 839
8" Oil, ASTM D1796, MPMS 10.4, D91, D128, D1093	100	37	203	0-0,5 / 0,5-2 / 2-3 / 3-5 / 5-10 / 10-25 / 25-100	0,05 / 0,1 / 0,2 / 0,5 / 1 / 5 / 25	12	6.269 226
California*, ASTM D91, D893, D1796	100	38	200	0-0,5 / 0,5-2 / 2-3 / 3-5 / 5-10 / 10-25 / 50 / 75 / 100	0,05 / 0,1 / 0,2 / 0,5 / 1 / 5 / - / - / -	12	6.268 457

* with permanent red stripe under the white enamel graduations for easy reading of results.

3


3 LLG-Microcentrifuge tubes, PP



LLG Microtubes cover standard volumes for a variety of sample tests. They are available in 0.5 ml, 1.5 ml and 2.0 ml volumes. These standard Microtubes withstand high centrifugal forces, are temperature and chemically-resistant and guaranteed leak-free. An innovative and modern new generation of Microtubes with new features. Perfect sealing qualities, excellent chemical stability and optimal construction materials guarantee even better resistance to centrifugal and chemical forces. Easy to open and to close thanks to the improved lid geometry. For visual volume control the 1.5 ml tubes are equipped with graduations at 0.5 ml, 1.0 ml and 1.5 ml. The 2.0 ml tubes have graduations at 0.5 ml, 1.0 ml, 1.5 ml and 2.0 ml. The 0.5 ml tubes have no graduations. Certified DNase-, RNase- and pyrogen-free.

Clear, in bags. Suitable for microbiology. Guaranteed metal-free.

Specifications

Autoclavability

Temperature:	121 °C
Pressure:	1.05 bar or 15 psi
Time:	20 min or less

Centrifugation

Fixed angle rotor:	25000 x g
Swing out rotor:	70000 x g

Form	Volume ml	Max. rcf	PK	Cat. No.
conical	0.5	20000	1000	9.409 023
conical	1.5	25000	1000	9.409 024
round	2.0	25000	1000	9.409 025

6. Distillation, separation, filtration Separating, centrifuging/Centrifuge tubes

LLG-Centrifuge tubes, 5 ml, PP



The LLG-Centrifuge tubes, 5 ml, represent the perfect solution for all laboratory applications requiring incubation, centrifugation and sample handling in an intermediate volume range. Available in clear, and amber for use with light sensitive samples, and as an assorted colour pack (green, blue, yellow and red).

- Max. 25.000 x g, suitable for high speed centrifugation
- Graduations every 0.25 ml for easy volume estimation
- A flat, frosted cap and large writing pad for sample labeling and identification
- Autoclavable
- Fits all rotors and racks that hold 15 ml conical tubes, no adapters needed
- Certified free of RNase and DNase

Description	Package contents	PK	Cat. No.
Clear	1 bag of 250 pieces	250	6.281 113 1
Colour assortment green, yellow, red, blue	4 bags of 50 pieces (1 colour per bag)	200	6.281 114 2
Amber	1 bag of 250 pieces	250	6.281 115 3

1



6.281 113

2



6.281 114

3



6.281 115

4 LLG-Centrifuge Tubes economy, PP



- With flat PE caps
- With conical bottom (15 and 50 ml) or with self-standing bottom (50 ml)
- Easy-to-read black volume graduations
- With a large frosted writing area
- Engraved graduation at the conical bottom of each tube
- Max. rotate speed up to 12000 x g for conical bottom tubes and 6000 x g for self-standing tubes
- Autoclavable at 121 °C and freezable to -80 °C
- Leak-proof
- Free of heavy metals, pyrogens and endotoxins
- DNase/RNase-free
- Aseptically or sterile

Capacity ml	Description	Form	Height mm	Diam. mm	PK	Cat. No.
15	Sterile, in bag of 25 pieces	conical	119,6	17	500	4.668 482
50	Sterile, in bag of 25 pieces	conical	113,9	30	500	4.668 483
50	Sterile, in bag of 25 pieces	with rim	116,5	30	500	4.668 486
15	Aseptically, bulk pack	conical	119,6	17	500	6.270 403
50	Aseptically, bulk pack	conical	113,9	30	500	6.270 404
50	Aseptically, bulk pack	with rim	116,5	30	500	6.270 405

4



5 LLG-Centrifuge tubes, PP



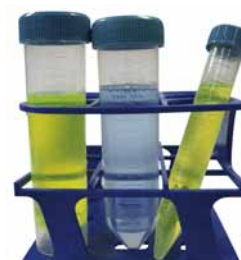
Polypropylene tubes with very good thermal, mechanical and chemical stability. With screw closures. Sterile tubes with screwed-on closure. Packed in boxes or bags. With graduations and labelling area.

Centrifugation capacity (Max. RCF): 6000 x g
Height: 120 mm

Description	Form	Capacity ml	Diam. mm	PK	Cat. No.
sterile, single packed*	conical	15	17	50	9.316 062
aseptic, bulk pack	conical	15	17	50	6.263 886
big pack	conical	15	17	500	9.316 063
sterile, single packed*	conical	50	30	50	9.316 064
big pack	conical	50	30	500	9.316 065
aseptic, bulk pack	conical	50	30	50	6.263 887
sterile, single packed*	with rim	50	30	50	9.316 067
big pack, bulk pack	with rim	50	30	50	4.008 506
aseptic, bulk pack	with rim	50	30	50	6.263 888

*Cytotoxicity-free, DNase/RNase- and human DNA-free.

5



Eppendorf Tubes® 5.0 mL, PP

Eppendorf AG



- Simple, practical and ergonomic single-hand operation. Large labelling area.
- Lid design: Hinged lid for minimized sample evaporation during storage and incubation in a wide range of temperatures from -86 °C to 80 °C
- Certified purity: Available in lot-tested and certified Eppendorf Quality, PCR clean, Sterile and Eppendorf Biopur® purity levels
- Maximum safety and stability for centrifugation up to 25 000 x g.
- Compatible with accessories for conical 15 ml tubes - many existing adapters and racks can be used.
- Available in Eppendorf LoBind® material for maximum recovery of valuable samples

The Starter Pack comprises:

- 400 Eppendorf Tubes® 5.0 mL, PCR clean (Certified purity grade)
- 8 universal adapters for rotors with bores for 15 ml conical tubes
- 2 Tube Racks 5.0 mL (16 spaces; white)
- Free of human DNA, free of DNase and RNase, free of PCR inhibiting agents.
- For PCR preparations or any reactions where DNase or RNase could interfere with the reaction or analysis.

From 80°C on, please use the Tube Clip opener Cat. No. 9.409 294.

Description	Package contents	PK	Cat. No.
Eppendorf Tubes® 5.0 mL, Eppendorf Quality™	2 bags of 100	200	9.409 277 1
Eppendorf Tubes® 5.0 mL, PCR clean	2 bags of 100	200	9.409 278
Eppendorf Tubes® 5.0 mL, Sterile	10 bags of 20	200	9.409 279
Eppendorf Tubes® 5.0 mL, Biopur®	bag of 50, single packed	50	9.409 288
Eppendorf Protein LoBind Tube, PCR clean	2 bags of 50	100	9.409 289
Eppendorf Protein LoBind Tube, PCR clean	2 bags of 100	200	4.665 939
Eppendorf DNA LoBind Tube, PCR clean	4 bags of 50	200	9.409 290
Eppendorf DNA LoBind Tube, PCR clean	2 bags of 100	200	4.665 938
Eppendorf Tubes® 5.0 mL, Eppendorf Quality™, amber (light protection)	2 bags of 100	200	6.265 214 2
Eppendorf Tubes® 5.0 mL, amber (light protection), Sterile	2 bags of 100	200	4.665 937
Tube Clip, Eppendorf Quality™		10	9.409 294 3
5.0 mL Starter Pack, PCR clean	2 Packs with 2 bags of 100 each, 2 Racks (16 spaces each), 8 Universal adapters	1	9.409 291 4
Eppendorf Tubes® 5.0 mL, Forensic DNA Grade	4 bags of 50	200	6.287 838
Eppendorf Tubes® 5.0 mL, Forensic DNA Grade, single packed	4 bags of 50	200	6.287 839

1



9.409 277

2



6.265 214

3



9.409 294

4



9.409 291

5



5 Eppendorf Tubes® 5.0 ml, PP



Eppendorf AG

- Ergonomic operation: Simple, practical and ergonomic operation. Large labelling area.
- Lid design: Screw cap for minimized sample evaporation during storage and incubation in a wide range of temperatures from -86 °C to 100 °C
- Material: Exceptionally high-quality, transparent polypropylene, free of plasticizers, biocides or mold release agents, for reliable test results
- Certified purity: Available in lot-tested and certified Eppendorf Quality, PCR clean and sterile purity levels
- Centrifugation safety: Maximum safety and stability for centrifugation up to 25 000 x g and fast and efficient protocols.
- Conical shape: Compatible with accessories for conical 15 mL tubes - many existing adapters and racks can be used.

Description	Package contents	PK	Cat. No.
Eppendorf Tubes® 5.0 mL, Eppendorf Quality	2 bags of 100	200	6.282 530
Eppendorf Tubes® 5.0 mL, PCR clean	2 bags of 100	200	6.282 531
Eppendorf Tubes® 5.0 mL, pyrogen-, DNase-, RNase and DNA-free	2 bags of 100	200	6.282 532

6. Distillation, separation, filtration Separating, centrifuging/Centrifuge tubes

1 Eppendorf Tubes® 25 ml, PP

NEW

Eppendorf AG



Transparent. For cell culture applications, sample preparations, storage and transport of samples. The SnapTec™ cap version allows single-handed opening and closing for quick liquid extraction or addition. Also available with HDPE screw cap.

- Conical
- Single-Handed Operation
- Tightness from -86 °C to 100 °C
- Max. RZB 17000 x g
- Lower height than 15 ml/50 ml conical tubes
- The SnapTec tubes are autoclavable

Starter pack 1: 200 Eppendorf Conical Tubes® 25 ml with snap cap SnapTec™, PCR clean, 4 single tube stands, 6 adapters for rotors with bore for 50 ml conical tubes

Starter pack 2: 200 Eppendorf Conical Tubes® 25 ml with screw cap, PCR clean, 4 single tube stands, 6 adapters for rotors with bore for 50 ml conical tubes



Description	PK	Cat. No.
Starter pack 1	1	6.311 419
Starter pack 2	1	4.669 460

2 Centrifuge tubes, PP

Greiner Bio-One



Polypropylene tubes with very good thermal, mechanical and chemical stability. Fitted with screw-on closure. Packed in boxes or bags. With graduations and labelling area. Tubes are sterile, cytotoxicity-free, DNase/RNase- and human DNA-free.

Specifications:

Centrifugation capacity (15 - 50 ml): 3215 x g/4500 rpm in swing out rotors
8965 x g/9000 rpm in fixed angle rotors

Form	Capacity ml	Diam. mm	Height mm	PK	Cat. No.
conical	15	17	120	50	9.380 423
conical	15	17	120	500	7.380 423
conical	15	17	120	1000	7.053 718
conical	50	30	115	20	9.380 421
conical	50	30	115	500	7.380 421
conical	50	30	115	300	6.049 748
conical, with rim	50	30	115	25	9.380 422
conical, with rim	50	30	115	450	7.380 422
conical, with rim	50	30	115	300	6.054 664



3 4 Centrifuge tubes, conical tubes, PP/HDPE

Thermo Scientific



New and improved conical tubes with the largest writing area on the market for increased traceability with additional space for labeling information. Recyclable plastic rack reduces waste in the lab. New conical tubes have higher RCF ratings, which enable more applications from low speed to super speed centrifugation. They meet USP class VI requirements and are non-cytotoxic, pyrogen-free and RNase/DNase free. Graduated, leak proof and sterile (SAL 10⁻⁶)

Material tubes: PP
Material caps: HDPE

Description	Capacity ml	Diam. mm	Height mm	Max. rcf	PK	Cat. No.
Bulk	15	17	120	10500 x g*	500	9.401 430
Bulk	50	30	115	17000 x g*	500	9.401 432
Racked	50	30	115	17000 x g*	300	9.401 433

* When fully supported by conical rotor cavity or conical adaptor. Note the maximum speeds listed are guidelines only. These speeds have been achieved in reliability tests based on sedimentation of 1.2 specific gravity fluid at 18 °C.



6. Distillation, separation, filtration

Separating, centrifuging/Centrifuge tubes

1 2 3 LLG-Test and centrifuge tubes rimmed, PS or PP

- Made of ultra clear virgin polypropylene or virgin polystyrene
- Polystyrene tubes are transparent. Polypropylene tubes are opaque, break-resistant
- Tubes with cap are ethylene oxide sterilized
- With label

LLG-Dual-Position Caps for test- and centrifuge tubes, PE

- For culture tubes with an O.D. of 12 mm and 17 mm

2 locking positions possible:

- Closed, but gas exchange is still possible for aerobic growth conditions
- Hermetically sealed for anaerobic growth conditions, for storage or despatch of samples or for centrifugation

Description	Capacity	Diam.	Height	Material	Max.	Max. temp.	PK	Cat. No.
	ml							
with rim	4	12	75	PS	1400	80	500	6.265 657
with rim	4	12	75	PP	3000	120	500	6.265 658
with rim	12	17	100	PS	3000	80	250	6.265 659
with rim	12	17	100	PP	5500	120	250	6.265 660
with dual-position-cap, sterilized	4	12	75	PS	1400	80	500	6.265 661
with dual-position-cap, sterilized	4	12	75	PP	3000	120	500	6.265 662
with dual-position-cap, sterilized	12	17	100	PS	3000	80	500	6.265 663
with dual-position-cap, sterilized	12	17	100	PP	5500	120	500	6.265 664
dual-position-cap		12		PE	-		1000	6.265 665
dual-position-cap		17		PE	-		1000	6.265 666



4



4 Centrifuge tubes, PP, with rim, without stoppers

BRAND



- Cylindrical
- Autoclavable (121 °C)

Nominal capacity	Ext. diam.	Height	Material	Max.	PK	Cat. No.
ml	mm	mm		rcf		
10	16	100	PP	4500	1	7.019 383
26	24	90	PP	4500	1	7.019 385
30	20	100	PP	4500	1	7.019 386
48	30	100	PP	4500	1	7.019 387
75	35	100	PP	4500	1	7.019 388
110	40	120	PP	4500	1	7.019 389
160	45	120	PP	4500	1	7.019 390

5



5 Stoppers, PE for centrifuge tubes, PP

BRAND



For tubes ml	PK	Cat. No.
10	100	7.019 392
26	100	7.019 394
30	100	7.019 395
48	100	7.019 393
75	100	7.019 396
110	100	7.019 397
160	100	7.019 398

1 Disposable test tubes and centrifuge tubes

Disposable tubes with round or conical bottom, with or without rim, for laboratory use. Made of PS or PP. Can be used in centrifuge.

Kartell

Type	RCF tested x g	Capacity ml	Height mm	Diam. mm	Rim	Material	PK	Cat. No.
Conical	1000	10	105.0	16.0	without	PS	1000	6.239 142
Cylindrical	1000	10	100.0	16.0	without	PS	500	6.230 885
Cylindrical	1300	5	75.0	12.0	without	PS	1000	6.227 892
Cylindrical	1000	15	150.0	16.0	without	PS	850	4.675 450
RIA	1300	5	70.0	11.0	without	PS	1000	6.224 123
Coagulometer	1300	3	55.0	11.5	without	PS	1000	6.241 859
Coagulometer	3500	3	55.0	11.5	without	PP	1000	6.225 923
Cylindrical	1300	5	87.0	12.0	with	PP	4000	6.259 144
Cylindrical	1000	10	99.3	16.0	with	PS	2000	6.226 185
Cylindrical	3000	10	100.0	16.0	with	PP	2000	6.207 280
Conical	1000	10	101.0	16.0	with	PS	2000	6.233 030



2 Test tubes and centrifuge tubes, PP



Round bottom.

Greiner Bio-One

Capacity ml	Diam. mm	Height mm	PK	Cat. No.
4	12	55	3600	9.400 615
5	12	75	2000	9.400 632
12	16	100	1600	9.400 664
14	17	100	1500	9.400 665



Graduated centrifuge tubes, conical, PP or PMP



Autoclavable. PP tubes can withstand temperatures up to +120 °C. PMP (TPX®) tubes can withstand temperatures up to +170 °C. Rimmed. High chemical resistance. Good transparency, especially when in contact with liquids. Cannot be used with naked flame. Can be used as conventional test tubes.

Kartell

Capacity ml	Diam. mm	Height mm	Grad. ml	Material	PK	Cat. No.
10	16	108		PP	500	9.315 832
15	18	120		PP	500	9.315 833
10	16	107	0.2	PP	100	6.233 811
15	18	118	0.2	PP	100	9.315 834
10	16	107	0.2	PMP (TPX®)	50	6.075 746
15	18	118	0.2	PMP (TPX®)	50	6.231 946



6.075 746

4 Centrifuge tubes, cylindrical, PP



Translucent. PP. Autoclavable. Can withstand temperatures up to +120 °C. Rimmed. High chemical resistance. Cannot be used with naked flame. Can also be used as conventional test tubes.

Kartell

Capacity ml	Diam. mm	Height mm	PK	Cat. No.
7	12	100.0	100	9.315 830
16	17	101.0	500	6.204 878
31	24	93.0	50	6.205 839
48	30	104.0	25	6.205 674
70	35	99.5	20	9.315 831
110	40	119.0	25	6.205 169



➔ Stoppers - please see page 29.



1 Centrifuge tubes, plastic, round bottom, PC, graduated

BRAND



Transparent. PC. Rimless, with moulded graduations. Slightly yellowish in colour. Round bottom. For use with loads up to 20000xg rcf.

Note: the strength of Polycarbonate is reduced when it is autoclaved or cleaned using alkaline detergents.

Volume ml	Diam. mm	Height mm	Graduations ml	PK	Cat. No.
50	35	99	1	1	9.315 329
100	41	115	-	1	9.315 339
100	45	98	2	1	9.315 340



2 Centrifuge tubes, round bottom, PS

Transparent.

BRAND

Type	Rotation speed rpm	Ext. diam. mm	Height mm	PK	Cat. No.
Universal	2000	16	100	2000	9.400 792
Universal	4000	12	75	1000	9.400 782
Coagulation	2000	12	55	1000	9.400 780



3 Grip stoppers for centrifuge tubes, round bottom, LDPE

Neutral.

BRAND

For tubes diam. mm	PK	Cat. No.
12	1000	9.400 788
16	1000	9.400 787



4 Centrifuge tubes Nalgene™ Oak Ridge, FEP

Thermo Scientific



Teflon® FEP with Tefzel® ETFE screw cap. Resistant to all acids, bases and solvents. Autoclavable. Operating temperature range -100 to +150 °C. Can be used brim-full in refrigerated centrifuges at up to 50000xg rcf. Leak-proof. Accessory sealing cap assemblies are available for all sizes.

Volume ml	Diam. mm	Height mm	PK	Cat. No.
10	16.0	81.5	1	9.315 701
30	25.5	93.7	1	9.315 702
50*	28.8	107.7	1	9.315 703

* Capacity: 46 ml to the brim.

Teflon® and Tefzel® are a registered trademark of DuPont.



5 Centrifuge tubes Nalgene™ Oak Ridge, PSU

Thermo Scientific



Transparent. Polysulphone (PSU) with PP screw cap. As stable and robust as PC test-tubes, but considerably more resistant to acids and alkalis. Autoclavable. Can be used in refrigerated or ambient centrifuges at up to 50000 xg rcf. Accessory sealing cap assemblies are available for all sizes. Notes: If autoclaving, the tubes must be filled to 80 % of their total capacity. Polysulphone must not be used with Tween, as this causes hairline cracks to form.

Volume ml	Diam. mm	Height mm	PK	Cat. No.
30	25.7	94.5	1	9.315 708
50*	29.0	107.7	1	9.315 709

* Capacity: 43ml to the brim.

1 Nalgene™ Oak-Ridge centrifuge tubes, PC



Thermo Scientific

Transparent. PC with PP screw cap. Can be used in suitable refrigerated or ambient centrifuges at up to 50.000 xg rcf. Autoclavable. Accessory sealing cap assemblies are available for 10 ml, 30 ml and 50 ml sizes.

Capacity ml	Diam. mm	Height mm	PK	Cat. No.
10	16.1	81.7	1	9.315 691
28	25.4	101.8	1	9.315 692
30	25.7	94.5	1	9.315 693
50*	28.8	107.0	1	9.315 694
85**	38.2	105.7	1	9.315 695

* Capacity: 43ml to the brim.

**Capacity: 81ml to the brim.



2 Nalgene™ Oak-Ridge centrifuge tubes, PP-copolymer



Thermo Scientific

PP-copolymer with PP screw cap. PPCO is more resistant to chemicals than PC. Autoclavable. When wet, the translucent test-tube enables observation of the contents. Can be used in refrigerated and unrefrigerated centrifuges at up to 50.000 xg rcf. Accessory sealing cap assemblies are available for all sizes.

Volume ml	Diam. mm	Height mm	PK	Cat. No.
10	16.0	81.4	1	9.315 711
28	25.4	101.9	1	9.315 712
30	25.5	94.3	1	9.315 713
50*	28.8	106.7	1	9.315 714

* Capacity: 42 ml to the brim.



3 Centrifuge tubes Nalgene™, PC



Thermo Scientific

PC, without closures. Friction-fit closures Type DS3111 for high-speed centrifugation please order separately. Transparent. Autoclavable. Can be used in refrigerated or ambient centrifuges at up to 50000xg rcf. Temperature resistant from -135 to +135 °C. Lip (on Cat. No. 9.315 660 and 9.315 661) allows easier retrieval from rotor cavities.

Volume ml	Diam. mm	Height mm	PK	Cat. No.
12	15.9	103.1	1	9.315 654
15	16.0	114.0	1	9.315 655
16	17.9	99.8	1	9.315 656
38	25.3	88.6	1	9.315 658
50	28.8	103.1	1	9.315 659
50*	28.5	106.2	1	9.315 660
100*	31.5	164.3	1	9.315 661

* with lip





1 Centrifuge bottles Nalgene™, PP-copolymer

Thermo Scientific



PP-copolymer with PP screw cap. Autoclavable.

Volume ml	Diam. mm	Height mm	Max. rcf	PK	Cat. No.
250	61.8	127.7	13,200*	1	9.315 716
500	69.5	170.2	13,700	1	9.315 717
500	73.8	169.8	4,800	1	9.315 720
1000	97.5	184.5	7,100	1	9.315 718
1000	97.7	179.0	7,100	1	9.315 719

* Up to 27500 xg if using the sealing screw cap 9.315 734.



2 Centrifuge bottles Nalgene™, PC

Thermo Scientific



PC with PP screw cap. Crystal clear. Good mechanical strength. Autoclavable. Leak-proof even at low speeds.

In order to ensure that the system is leak-proof even at high speeds and when centrifuging dangerous substances, the 250 ml and 1000 ml sizes must be used in conjunction with sealing screw cap sets.

Volume ml	Diam. mm	Height mm	Max. rcf	PK	Cat. No.
250	61.8	127.6	27,500	1	9.315 721
500	69.5	169.6	13,700	1	9.315 723
1000	97.6	188.4	7,100	1	9.315 724
1000	98.1	180.2	7,100	1	9.315 725



3 Sealing cap assemblies Nalgene™, PP

Thermo Scientific



PP screw cap with Tefzel® ETFE plug liner and viton O-ring. Leak-proof at recommended maximum speed and rcf for tubes. Suitable for working with aggressive chemicals. The 38 mm assembly has a PP shoulder reinforcement ring to prevent collapsing of the 250 ml bottles.

For tubes ml	Screw cap diam. mm	PK	Cat. No.
30	20	1	9.315 732
50	24	1	9.315 733
250	38	1	9.315 734

Tefzel® is registered trademark of DuPont.



4 Sealing cap assemblies with silicone seal Nalgene™, PP

Thermo Scientific



For Oak Ridge centrifuge test tubes made of PP, PC and polysulphone.

For tubes ml	Screw cap diam. mm	PK	Cat. No.
28 / 30	20	2	9.315 738
50	24	2	9.315 739
250	58	2	9.315 740
500 / 1000	63	2	9.315 741



5 Wide-mouth centrifuge bottles Nalgene™, PP-copolymer

Thermo Scientific



PP-copolymer with sealing screw cap. Autoclavable.

Volume ml	Diam. mm	Height mm	Max. rcf x g	PK	Cat. No.
250	60.7	133.4	27500	1	9.315 763
450	69.5	160.0	13700	1	9.315 764