

Consumables

Test tubes FIOLAX

- made of FIOLAX borosilicate glass 3.3
- with rim
- round bottom



pack = 100 pcs.

| Length | Outer Ø | Order number |
|--------|---------|--------------|
| mm | mm | pack |
| 70 | 8 | 4 902 001 |
| 100 | 10 | 4 902 002 |
| 100 | 12 | 4 902 003 |
| 100 | 16 | 4 902 004 |
| 130 | 14 | 4 902 005 |
| 160 | 16 | 4 902 006 |
| 180 | 18 | 4 902 007 |
| 180 | 20 | 4 902 008 |
| 200 | 25 | 4 902 009 |
| 200 | 30 | 4 902 010 |



Disposable culture tubes

- made of AR-glass
- plain top
- round bottom



pack = 250 pcs.

| Length | Outer Ø | Order number |
|--------|---------|--------------|
| mm | mm | pack |
| 70 | 10 | 4 925 001 |
| 75 | 12 | 4 925 002 |
| 100 | 12 | 4 925 003 |
| 100 | 16 | 4 925 004 |
| 125 | 16 | 4 925 005 |
| 130 | 13 | 4 925 008 |
| 160 | 16 | 4 925 006 |
| 180 | 18 | 4 925 007 |



Culture tubes plain top

- made of borosilicate glass 3.3
- plain top
- round bottom



pack = 100 pcs.

| Length | Outer Ø | Wall | Order number |
|--------|---------|---------|--------------|
| mm | mm | mm | pack |
| 75 | 12 | 0.8-1.0 | 4 903 001 |
| 100 | 12 | 0.8-1.0 | 4 903 002 |
| 130 | 16 | 1.0-1.2 | 4 903 003 |
| 160 | 16 | 1.0-1.2 | 4 903 004 |
| 180 | 18 | 1.0-1.2 | 4 903 005 |
| 150 | 20 | 1.0-1.2 | 4 903 006 |
| 150 | 25 | 1.0-1.2 | 4 903 008 |
| 200 | 25 | 1.0-1.2 | 4 903 009 |
| 200 | 30 | 1.0-1.4 | 4 903 010 |
| 100 | 10 | 0.8-1.0 | 4 903 013 |
| 130 | 14 | 0.8-1.0 | 4 903 014 |
| 180 | 18 | 1.0-1.2 | 4 903 020 |



Test tubes with heavy wall (~1mm)

- made of AR-glass
- plain top
- round bottom



pack = 100 pcs.

| Length | Outer Ø | Order number |
|--------|---------|--------------|
| mm | mm | pack |
| 40 | 8 | 4 904 002 |
| 70 | 10 | 4 904 003 |
| 75 | 12 | 4 904 004 |
| 85 | 15 | 4 904 006 |
| 100 | 10 | 4 904 007 |
| 100 | 12 | 4 904 008 |
| 100 | 14 | 4 904 009 |
| 100 | 16 | 4 904 010 |
| 130 | 14 | 4 904 012 |
| 160 | 16 | 4 904 014 |
| 180 | 18 | 4 904 015 |



Culture tubes with rim

- made of borosilicate glass 3.3
- DIN12395
- round bottom



pack = 100 pcs.

| Length | Outer Ø | Wall | Order number |
|--------|---------|---------|--------------|
| mm | mm | mm | pack |
| 70* | 8 | 0.8-1.0 | 4 903 100 |
| 75 | 12 | 0.8-1.0 | 4 903 101 |
| 100 | 12 | 0.8-1.0 | 4 903 102 |
| 130 | 16 | 1.0-1.2 | 4 903 103 |
| 160 | 16 | 1.0-1.2 | 4 903 104 |
| 180 | 18 | 1.0-1.2 | 4 903 105 |
| 150 | 20 | 1.0-1.2 | 4 903 106 |
| 150* | 25 | 1.0-1.2 | 4 903 108 |
| 200 | 25 | 1.0-1.2 | 4 903 109 |
| 200 | 30 | 1.0-1.4 | 4 903 110 |
| 100 | 10 | 0.8-1.0 | 4 903 113 |
| 130 | 14 | 0.8-1.0 | 4 903 114 |
| 180 | 18 | 1.0-1.2 | 4 903 120 |



Test tube with spout and graduation

- made of borosilicate glass 3.3
- with rim and spout
- round bottom



| Capacity | Division | Length | Outer Ø | Order number |
|----------|----------|--------|---------|--------------|
| ml | ml | mm | mm | |
| 10 | 0.1 | 150 | 12 | 4 906 001 |
| 20 | 0.2 | 210 | 14 | 4 906 002 |
| 25 | 0.2 | 180 | 18 | 4 906 003 |
| 30 | 0.5 | 180 | 20 | 4 906 004 |



* not according to DIN 12395

Test tubes

pack = 1000 pcs.

- made of clear PS or translucent PP

| Volume ml | Ø x H mm | Material | Bottom | Order number pack |
|--------------|-------------|----------|---------|----------------------|
| 4 | 11 x 70 | PS | round | 5 449 001 |
| 4 | 12 x 55 | PS | round | 5 449 002 |
| 5 | 12 x 75 | PS | round | 5 449 003 |
| 5 | 12 x 75 | PP | round | 5 449 004 |
| 4,5 | 12 x 75 | PS | conical | 5 449 005 |
| 12 | 16 x 100 | PS | round | 5 449 006 |
| 12 | 16 x 100 | PP | round | 5 449 007 |
| 12 | 17 x 103 | PS | conical | 5 449 009 |
| 12 | 18 x 115 | PS | conical | 5 449 010 |
| 12 | 18 x 115 | PS | round | 5 449 011 |



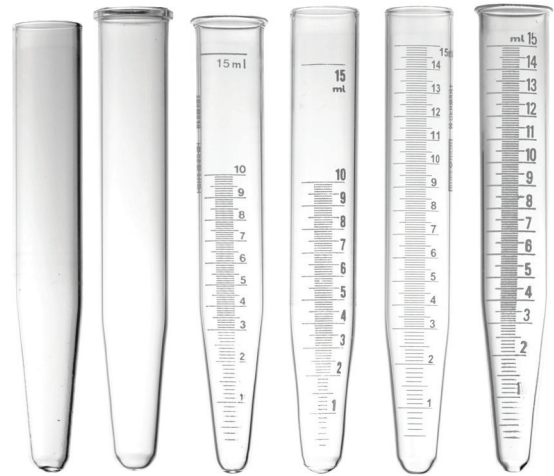
Centrifuge tubes - conical bottom

- with and without rim
- with and without graduation

pack = 100 pcs.



| Capacity ml | Dimensions mm | Wall thickness mm | Made of | Rim | Graduation | Order number pack |
|----------------|------------------|-------------------------|--------------|-----|--------------|----------------------|
| ~15 | 112 x 17 | 0,8 - 1,0 | AR-glass | - | - | 4 860 001 |
| ~15 | 112 x 17 | 0,8 - 1,0 | AR-glass | yes | - | 4 860 004 |
| ~15 | 112 x 17 | 0,8 - 1,0 | Borosilicate | yes | - | 4 860 005 |
| ~10 | 98 x 17 | 0,8 - 1,0 | AR-glass | - | - | 4 865 001 |
| ~10 | 98 x 17 | 0,8 - 1,0 | AR-glass | yes | - | 4 865 002 |
| ~15 | 112 x 17 | 0,8 - 1,0 | AR-glass | - | 10ml:0.1 | 4 870 001 |
| ~15 | 112 x 17 | 0,8 - 1,0 | AR-glass | yes | mark at 15ml | 4 870 004 |
| ~15 | 112 x 17 | 0,8 - 1,0 | AR-glass | - | - | 4 875 001 |
| ~15 | 112 x 17 | 0,8 - 1,0 | AR-glass | yes | 15ml:0.1 | 4 875 004 |
| ~15 | 112 x 17 | 0,8 - 1,0 | Borosilicate | yes | - | 4 875 005 |



Centrifuge tubes - conical bottom 60° - heavy wall

- made of borosilicate glass 3.3

| Capacity ml | Length mm | Outer Ø mm | Order number |
|----------------|--------------|---------------|--------------|
| 15* | 100 | 16 | 4 945 001 |
| 25 | 100 | 24 | 4 945 002 |
| 50 | 100 | 34 | 4 945 003 |
| 80 | 100 | 44 | 4 945 004 |
| 85 | 115 | 40 | 4 945 005 |

* conical bottom 30°

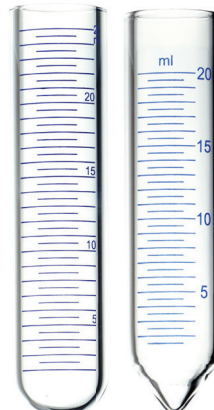


Centrifuge tubes graduated - heavy wall

- made of borosilicate glass 3.3



| Capacity ml | Length mm | Outer Ø mm | Bottom | Graduation | Order number |
|----------------|--------------|---------------|---------|------------|--------------|
| 15* | 100 | 16 | round | 10ml:0.1 | 4 940 102 |
| 25* | 100 | 24 | | 20ml:0.1 | 4 940 103 |
| 50* | 100 | 34 | | 45ml:0.1 | 4 940 104 |
| 100* | 100 | 44 | | 85ml:0.1 | 4 940 105 |
| 250* | 147 | 56 | | 200ml:5 | 4 940 107 |
| 15 | 98 | 16 | conical | 10ml:0.1 | 4 945 101 |
| 25 | 98 | 24 | | 20ml:0.1 | 4 945 102 |
| 50 | 98 | 34 | | 45ml:0.1 | 4 945 103 |
| 100 | 98 | 44 | | 85ml:0.1 | 4 945 104 |



* according to DIN 58970 (Part 2)

Consumables

Centrifuge tubes - with screw cap - heavy wall

- made of borosilicate glass 3.3

| Capacity | Length | Outer Ø | Bottom | Order number |
|----------|--------|---------|---------|--------------|
| ml | mm | mm | | |
| 15 | 98 | 16 | round | 4 945 201 |
| 25 | 98 | 24 | | 4 945 202 |
| 50 | 98 | 34 | | 4 945 203 |
| 80 | 98 | 44 | | 4 945 204 |
| 15 | 98 | 16 | conical | 4 945 301 |
| 25 | 98 | 24 | | 4 945 302 |
| 50 | 98 | 34 | | 4 945 303 |
| 80 | 98 | 44 | | 4 945 304 |



Centrifuge tubes graduated - with screw cap - heavy wall

- made of borosilicate glass 3.3

| Capacity | Length | Outer Ø | Bottom | Order number |
|----------|--------|---------|---------|--------------|
| ml | mm | mm | | |
| 15 | 98 | 16 | round | 4 945 401 |
| 25 | 98 | 24 | | 4 945 402 |
| 50 | 98 | 34 | | 4 945 403 |
| 80 | 98 | 44 | | 4 945 404 |
| 15 | 98 | 16 | conical | 4 945 501 |
| 25 | 98 | 24 | | 4 945 502 |
| 50 | 98 | 34 | | 4 945 503 |
| 80 | 98 | 44 | | 4 945 504 |



Centrifuge tubes - BIOGEN

- made of borosilicate glass 3.3, heavy wall
- with screw cap

| Volume | Length | Outer Ø | Division | Thread | Bottom | Order number |
|--------|--------|---------|---|--------|--------------|--------------|
| ml | mm | mm | ml | GL | | |
| 12 | 137 | 17 | 1 | 18 | conical | 4 946 001 |
| 15 | 140 | 17 | 1 | 18 | conical | 4 946 002 |
| 40 | 145 | 28 | 0-10 : 0.5 10-40 : 1.0 | 25 | conical | 4 946 003 |
| 50 | 140 | 28 | 0-10 : 0.5 10-50 : 1.0 | 25 | shallow cone | 4 946 101 |
| 10 | 97 | 20 | - | 18 | round | 4 947 001 |
| 35 | 100 | 28 | - | 18 | round | 4 947 002 |
| 50 | 140 | 28 | - | 25 | round | 4 947 003 |
| 140 | 152 | 60 | 0-3 : 0.5 3-10 : 1.0 10-20 : 2.0 20-50 : 3.0 50-125 : 5.0 | - | conical | 4 947 101 |
| 140 | 152 | 60 | - | 32 | conical | 4 947 201 |
| 590 | 175 | 95 | - | 32 | conical | 4 947 202 |
| 760 | 175 | 95 | - | 45 | shallow cone | 4 947 301 |
| 140 | 150 | 60 | 0-3 : 0.5 3-10 : 1.0 10-20 : 2.0 20-50 : 3.0 50-125 : 5.0 | 32 | conical | 4 947 401 |
| 200 | 173 | 60 | 0-3 : 0.5 3-10 : 1.0 10-20 : 2.0 20-50 : 3.0 50-125 : 5.0 | 32 | conical | 4 947 402 |



Centrifuge tubes

- made of PP
- autoclavable up to 121°C

| Capacity | Length | Outer Ø | Bottom | Order number |
|----------|--------|---------|---------|--------------|
| ml | mm | mm | | |
| 7 | 100 | 12 | round | 7 271 001 |
| 16 | 100 | 18 | | 7 271 002 |
| 31 | 95 | 24 | | 7 271 004 |
| 48 | 100 | 30 | | 7 271 005 |
| 75 | 100 | 35 | | 7 271 006 |
| 110 | 120 | 40 | | 7 271 007 |
| 10 | 108 | 16 | | conical |
| 15 | 120 | 18 | conical | 7 272 002 |



Centrifuge tubes graduated

- conical bottom
- made of PP or PMP
- autoclavable up to 121°C (PP) or 170°C (PMP)

| Capacity | Length | Outer Ø | Material | Order number |
|----------|--------|---------|----------|--------------|
| ml | mm | mm | | |
| 10 | 110 | 16 | PP | 7 273 001 |
| 15 | 118 | 18 | | 7 273 002 |
| 10 | 110 | 16 | PMP | 7 273 101 |
| 15 | 118 | 18 | | 7 273 102 |



Reaction vessels

- made of PP or PE
- with and without affixed lid (perforated)
- transparent

dustfree pack = 1000 pcs.

| Volume | Lid | Material | Order number |
|--------|-----|----------|--------------|
| ml | | | pack |
| 0,25 | Yes | PE | 5 420 025 |
| 0,4 | | PE | 5 420 000 |
| 0,7 | | PP | 5 419 000 |
| 1,5 | | PP | 5 417 000 |
| 1,9 | | PP | 5 417 019 |
| 2,2 | | PP | 5 417 022 |
| 1,5 | - | PP | 5 418 000 |
| 2,2 | - | PP | 5 418 022 |



Cryovials

- made of PP
- sterilized by radiation
- for deep freezing -20°C up to 196°C
- screw cap with seal joint
- white marking area

pack = 100 pcs.

| Volume | Bottom | Order number |
|--------|-----------------------|--------------|
| ml | | pack |
| 1,2 | conical | 5 485 001 |
| 2 | round - self standing | 5 485 002 |
| 4 | round - self standing | 5 485 003 |
| 5 | round | 5 485 004 |
| 2 | round | 5 485 005 |



Centrifuge tube ASTM D91 D96; 8 in.



- cylindrical with conical bottom
- borosilicate glass 3.3
- graduated
- marks at 50, 75 and 100ml

| Volume | Division | Order number |
|--------|--------------|--------------|
| ml | | |
| 100 | 0-0.5 : 0.05 | 4 955 010 |
| | 0.5-2 : 0.1 | |
| | 2-3 : 0.2 | |
| | 3-5 : 0.5 | |
| | 5-10 : 1 | |
| | 10-25 : 5 | |
| | 25-100 : 25 | |



Centrifuge tube ASTM D96



- pear shape with cylindrical bottom
- borosilicate glass 3.3
- graduated
- marks at 50 and 100ml

| Volume | Division | Order number |
|--------|-------------|--------------|
| ml | | |
| 100 | 0-1.5 : 0.1 | 4 956 010 |
| | 1.5-3 : 0.5 | |
| | 3-5 : 0.5 | |
| | 5-10 : 1.0 | |
| | 10-25 : 5 | |
| | 25-100 : 25 | |



Centrifuge tube ASTM D96; 6 in.



- cylindrical with conical bottom
- borosilicate glass 3.3
- graduated
- marks at 50 and 100ml

| Volume | Division | Order number |
|--------|--------------|--------------|
| ml | | |
| 100 | 0-0.5 : 0.05 | 4 957 010 |
| | 0.5-2 : 0.1 | |
| | 2-3 : 0.2 | |
| | 3-5 : 0.5 | |
| | 5-10 : 1 | |
| | 10-25 : 5 | |

