

07

GLASSWARE FOR
MICROBIOLOGY

GLASSWARE FOR MICROBIOLOGY

Due to its high thermal-shock resistance, DURAN® microbiology glassware is ideal for auto-claving and sterilisation processes and shows, even after multiple use no signs of wear. Unlike plastic items, it is very resistant to mechanical wear even after repeated use and sterilisation cycles.

Due to the nearly inert behaviour, there are no interactions (e.g. ion exchange) between medium and glass and any spurious influence on experiments is thereby effectively excluded.

DURAN® products are completely transparent in visible light and unlike many plastic products are ideal for use under the microscope.

DUROPLAN® Petri dishes offer outstanding performance due to their distortion-free transparency and high planarity (flatness). These excellent geometrical properties enable uniform agar distribution and reproducible culture growth.

Alongside the Petri dishes, the DURAN® range includes a wide range of culture bottles, culture flasks, roller bottles and spot plates.

In addition, there are various types of staining dishes.

Usage tips:

- Only autoclave products that are free from damage such as scratches, cracks or nicks.
- The outstanding thermal properties (max. operating temperature of +500 °C, thermal shock resistance $\Delta T = 100$ K) enable high temperature processes, such as hot air sterilisation.

07



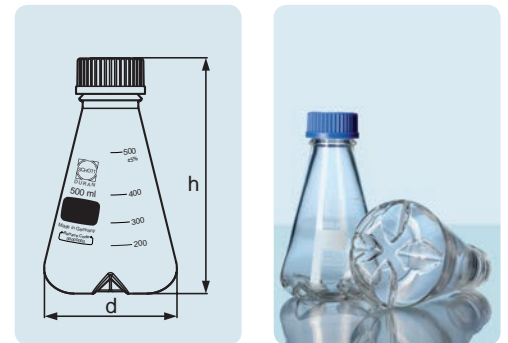
> Find your nearest **distributor** on our global network:
www.DWK-LifeSciences.com/DURAN/distributors

Baffled flasks disrupt the circular laminar flow and cause additional turbulence. The baffles increase the gas exchange surface area of the liquid, and the oxygen uptake.

Cat. No.	Capacity (mL)	d (OD) (mm)	h (mm)	DIN Thread (GL)	Pack Unit
with membrane screw cap and pouring ring					
212833655	250	85	145	45	4
212834454	500	105	180	45	4
212835459	1000	135	221	45	1
without membrane screw cap and pouring ring					
212835401	1000	135	221	45	1
212833606	250	85	145	45	4
212834405	500	105	180	45	4

DURAN® Baffled Flask

with GL 45 thread



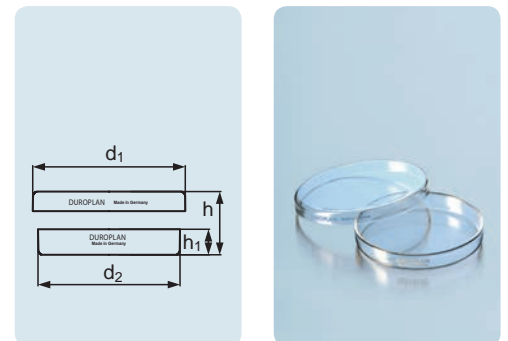
These Petri dishes are made from DURAN® borosilicate 3.3 glass using a special manufacturing process that permits the uniform distribution of agar and guarantees distortion-free observation.

Typical applications: biological and clinical research, cultivation of microorganism, microscopy.

Cat. No.	d ₁ (OD) (mm)	d ₂ (OD) (mm)	h (mm)	h ₁ (mm)	Pack Unit
217554101	60	54	22	20	10
217554307	80	74	22	20	10
217554607	100	94	17	15	10
217554804	100	94	22	20	10
217555106	120	114	22	20	10
217555303	150	143	32	30	10

DUROPLAN® Petri Dish

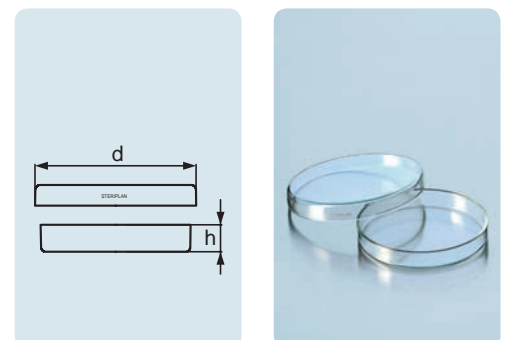
lid and base have planar surfaces, and free from bubbles and streaks



Cat. No.	d (OD) (mm)	h (mm)	Pack Unit
237553903	40	12	10
237554008	60	15	10
237554205	80	15	10
1184071	90	15	10
237554505	100	10	10
237554608	100	15	10
237554805	100	20	10
237555107	120	20	10
237555201	150	25	10
237555604	180	30	10
237555904	200	30	10
237556103	200	45	10

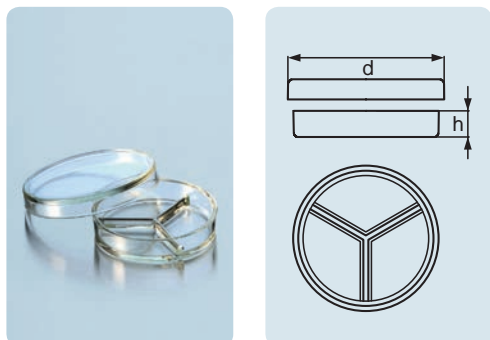
STERIPLAN® Petri Dish

from Soda-lime Glass



DURAN® Petri Dish

pressed



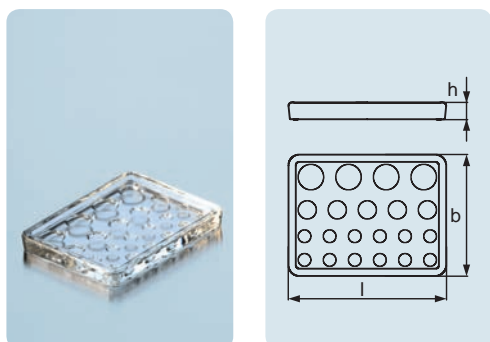
Bottom of the base has three knobs for stability.

Typical applications: biological and clinical work, preparation of agars, microscopy.

Cat. No.	d (OD) (mm)	h (mm)	Pack Unit
without sections			
217544606	100	15	10
217544803	100	20	10
Half-sectional			
217504808	100	20	10
Three-sectional			
217534802	100	20	10
Four-sectional			
217524801	100	20	10

Spot Plate Type Feigl

from Soda-lime Glass

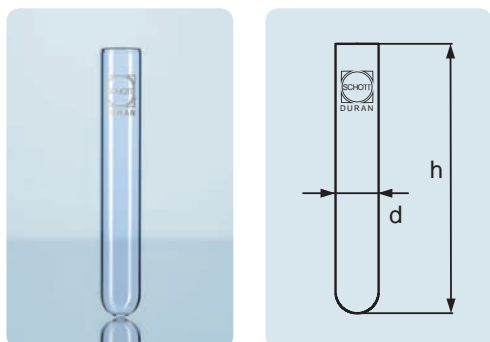


Typical application: observation of reactions and colour changes.

Cat. No.	h (mm)	l (mm)	b (mm)	Pack Unit
236715208	14	130	100	10

DURAN® Centrifuge Tube

with round bottom



Centrifuge tubes are very resistant to mechanical loading. The higher density fraction collects in the bottom. Consequently solids can be collected and separated.

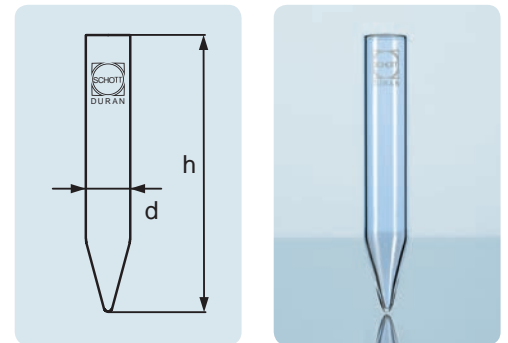
Cat. No.	d (OD) (mm)	h (mm)	Nominal capacity (mL)	Remark	Pack Unit
216011004	12	100	6		50
216011107	16	100	12		50
216011407	24	100	25		10
216011707	34	100	50		10
216012403	40	115	80	Non-DIN size.	10
216012609	44	100	80		10
216013605	56	147	250	Non-DIN size.	10

Centrifuge tubes are very resistant to mechanical loading. The higher density fraction collects in the pointed centre of the bottom. Consequently even small amounts of solids can be collected and separated.

Cat. No.	d (OD) (mm)	h (mm)	Nominal capacity (mL)	Pack Unit
242630901	16	100	12	50

DURAN® Centrifuge Tube

conical bottom, angle 30°

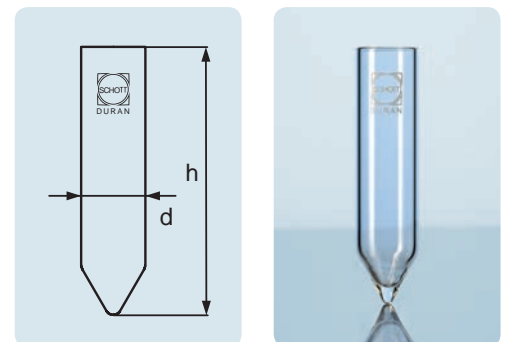


Centrifuge tubes are very resistant to mechanical loading. The higher density fraction collects in the pointed centre of the bottom. Consequently even small amounts of solids can be collected and separated.

Cat. No.	d (OD) (mm)	h (mm)	Nominal capacity (mL)	Pack Unit
216111405	24	100	25	10
216111705	34	100	50	10

DURAN® Centrifuge Tube

conical bottom, angle 60°



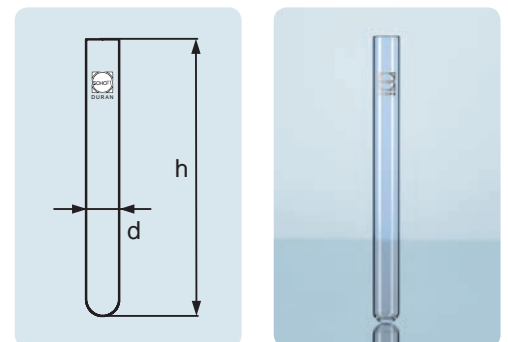
The straight rim permits the use of Kapsenberg caps; tubes are therefore well suited to the culture of micro-organisms (Kapsenberg caps article no. 290100909 and 290101108).

Typical applications: growth and storage of sterile cultures.

Cat. No.	d (OD) (mm)	h (mm)	Volume approx. (mL)	Wall thickness (mm)	Pack Unit
261322108	16	160	20	1.0 – 1.2	100
261322305	18	180	30	1.0 – 1.2	100

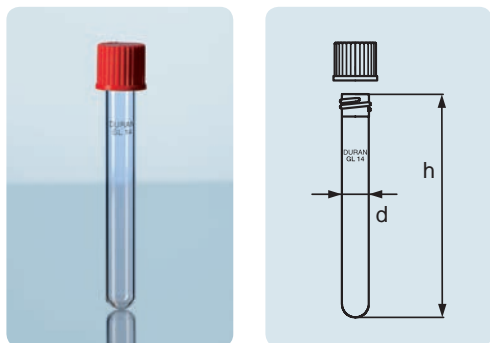
DURAN® Culture Tube

straight rim, for Kapsenberg caps



DURAN® Culture Tube

with DIN thread, and screw cap from PBT



A
121 °C

USP
Standard

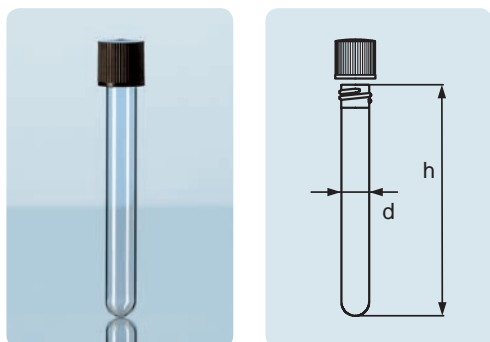
The DIN thread permits the use of PBT screw caps; tubes are therefore well suited to the culture of micro-organisms. The contents only come into contact with the glass and PTFE coating of the cap liner.

Typical applications: growing and storage of sterile cultures.

Cat. No.	d (OD) (mm)	h (mm)	DIN Thread (GL)	Volume approx. (mL)	Pack Unit
with screw cap					
261351155	12	100	14	6	50
261351258	13	100	14	9	50
261352151	16	160	18	20	50
261352254	16	150	18	20	50
261352451	20	150	18	34	50
261352357	18	180	18	30	50
without screw cap					
261351106	12	100	14	6	50
261351209	13	100	14	9	50
261352102	16	160	18	20	50
261352205	16	150	18	20	50
261352402	20	150	18	34	50
261352308	18	180	18	30	50

Disposable Culture Tube

from Soda-lime Glass, with DIN thread, and PP screw cap



Tmax.
140 °C

Screw cap from PP with cap liner.

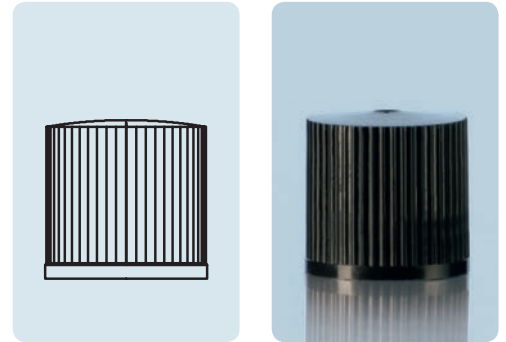
Cat. No.	d (OD) (mm)	h (mm)	DIN Thread (GL)	Volume approx. (mL)	Wall thickness (mm)	Pack Unit
with TPE seal						
231751159	12	100	14	6	1	100
231751459	16	100	18	12	1	100
231752155	16	160	18	22	1	100
231752352	18	180	18	32	1	100

With seal from TPE.

Cat. No.	DIN Thread (GL)	Pack Unit
299901204	14	100
299901307	18	100

Screw Cap for Culture Tubes

with seal



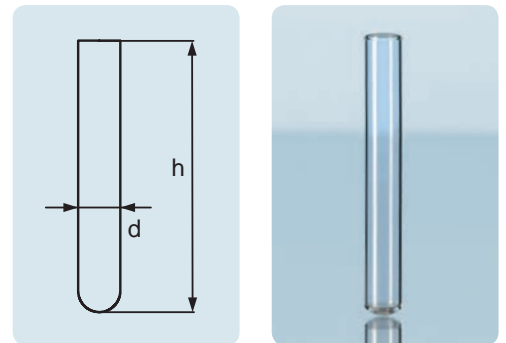
A
121 °C

Tmax.
140 °C

Cat. No.	d (OD) (mm)	h (mm)	Volume approx. (mL)	Wall thickness (mm)	Pack Unit
231720184	9.75	75	4	0.8	814
231720365	10.00	75	4	0.6	766
231720587	11.75	75	5	0.8	550
231720862	11.75	75	6	0.55	550
231720965	12.25	75	7	0.55	500
231720998	12.25	75	6	0.8	500
231720784	11.75	100	8	0.8	550
231721197	12.25	100	9	0.8	500
231721489	15.50	100	14	0.8	310
231721094	15.75	100	15	0.9	310
231721283	12.25	120	18	0.8	500
231721883	10.00	150	8	0.8	766
231721986	15.50	150	19	0.8	310
231722193	15.50	160	22	0.8	310

Disposable Culture Tube

from Soda-lime Glass, straight rim



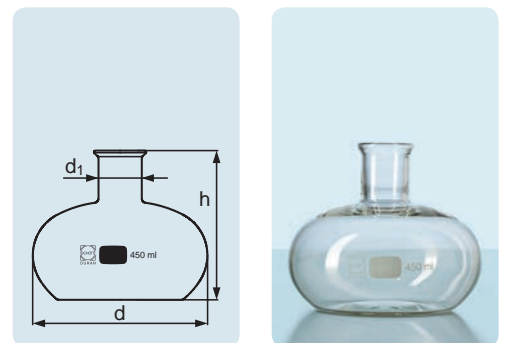
Large, flat, bottom surface allows uniform culture thickness.

Typical application: preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Pack Unit
215014307	450	117	29	100	10

DURAN® Culture Flask Fernbach Type

bulbous shape

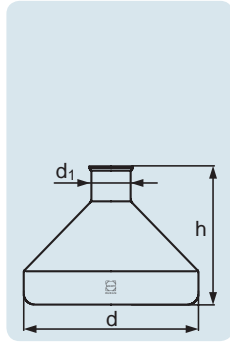


A
121 °C

USP
Standard

DURAN® Culture Flask Fernbach Type

conical shape



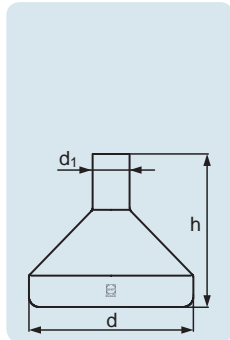
Large, flat, bottom surface allows uniform culture thickness.

Typical application: preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Pack Unit
215116203	1800	200	45	158	2

DURAN® Culture Flask Fernbach Type

conical shape, straight neck for metal caps



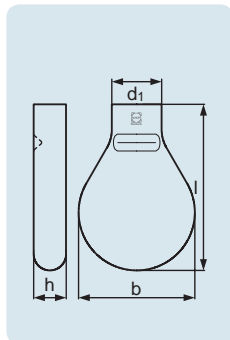
Large, flat, bottom surface allow uniform culture thickness. Compatible metal cap made from either stainless steel (Cat. no. 290122406) or anodised aluminium (Cat. no. 290132407) are available.

Typical application: preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Pack Unit
217746209	1800	200	38	175	2

DURAN® Culture Flask Kolle Type

oval neck



Large, flat, bottom surface allows uniform culture thickness.

Typical application: preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	d ₁ (OD) (mm)	h (mm)	l (mm)	b (mm)	Pack Unit
215214106	400	60	39	200	140	10

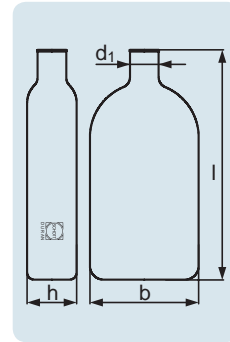
Large, flat, bottom surface allows uniform culture thickness.

Typical application: preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	d, (OD) (mm)	h (mm)	l (mm)	b (mm)	Pack Unit
215415801	1200	33	56	260	123	10

DURAN® Culture Flask Roux Type

round neck



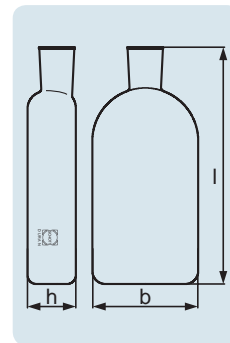
Large, flat, bottom surface allows uniform culture thickness.

Typical application: preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	h (mm)	l (mm)	b (mm)	Pack Unit
215715804	1200	56	275	123	10

DURAN® Culture Flask Roux Type

conical neck, eccentric

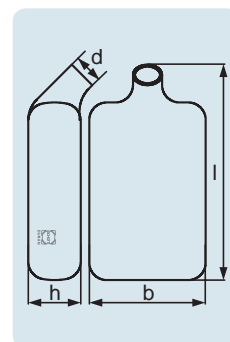


Large, flat bottom surface allows uniform culture thickness.

Typical application: preparation of cultures in nutrient media.

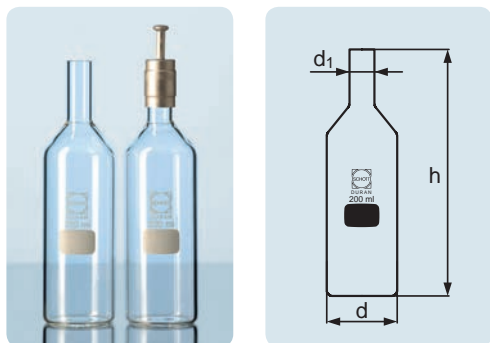
Cat. No.	Capacity (mL)	d (OD) (mm)	h (mm)	l (mm)	b (mm)	Pack Unit
215517106	4000	50	90	370	200	1

DURAN® Penicillin Flask



DURAN® Culture Bottle

straight rim, for Kapsenberg caps



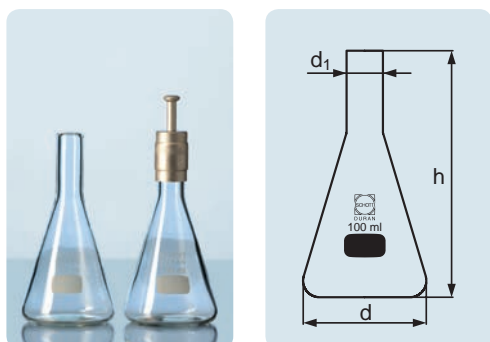
A suitable Kapsenberg cap (cat. no. 290101108) is available.

Typical application: preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Remark	Pack Unit
214211706	50	40	18	107		10
214212402	100	40	18	150		10
214213201	200	50	18	175	DIN 38 411, part 6	10

DURAN® Erlenmeyer Flask

straight rim, for Kapsenberg caps



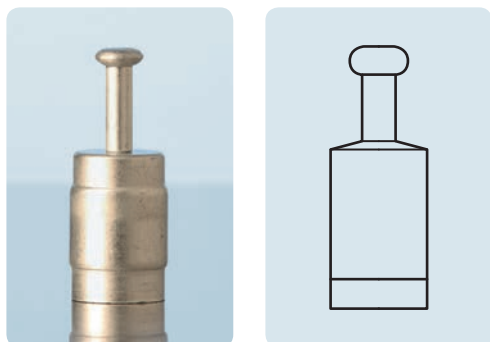
Conical geometry makes the flasks particularly suited for shaking experiments (e.g. media optimisation). A suitable Kapsenberg cap (Cat. no. 290101108) is available.

Typical application: preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Pack Unit
214912406	100	60	18	120	10

Kapsenberg Cap

from aluminium



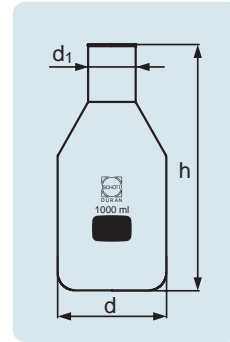
Cat. No.	Description	For neck (mm)	Pack Unit
290100909	suitable for Culture tubes cat. no. 261322108	16	10
290101108	suitable for Culture tubes cat. no. 261322305, Culture bottle cat. no. 214211706, 214212402, 214213201 and Erlenmeyer tubes cat. no. 214912406	18	10

Typical application: preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Pack Unit
214313902	300	70	31	168	10
214314401	500	83	46	204	10
214315406	1000	105	46	238	10

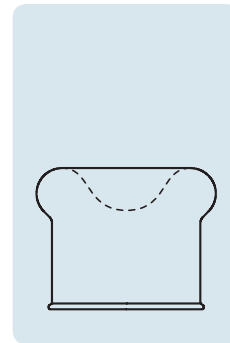
DURAN® Culture Media Bottle

straight rim, for use with glass caps



Cat. No.	Description	For neck (mm)	Pack Unit
214411805	suitable culture media bottle: cat. no. 214313902	31	10
214412904	suitable culture media bottle: cat. no. 214314401 and cat. no. 214315406	46	10

DURAN® Glass Cap

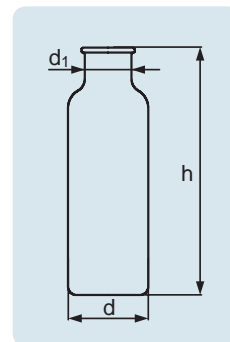


Typical application: preparation of cultures in nutrient media.

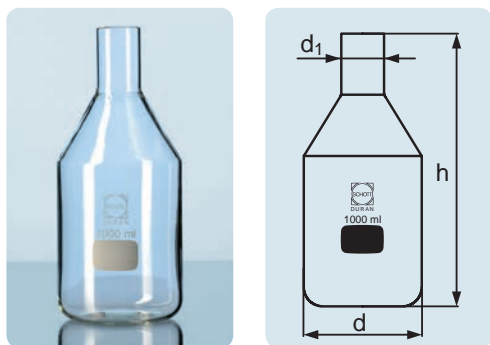
Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Pack Unit
214813104	180	48	28	148	10

DURAN® Square Bottle

after Breed-Demeter



DURAN® Culture Media Bottle

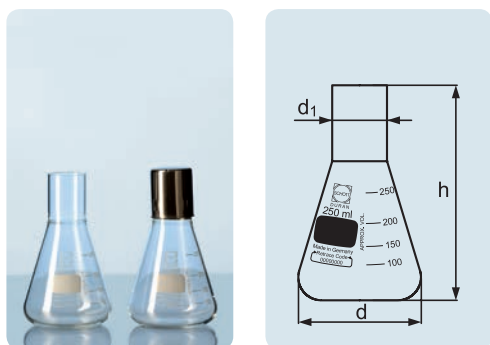


Typical application: preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Pack Unit
with beaded rim					
214512405	100	50	29	115	10
214513907	300	70	42	168	10
214514406	500	83	42	207	10
214515402	1000	105	46	237	10
214516604	2500	150	50	315	1
214517309	5000	185	54	390	1
straight neck for metal caps					
217732403	100	50	38	125	10
217733905	300	70	38	170	10
217734404	500	83	38	208	10
217735409	1000	105	38	243	10

DURAN® Culture Flask Erlenmeyer Shape

straight neck for metal caps

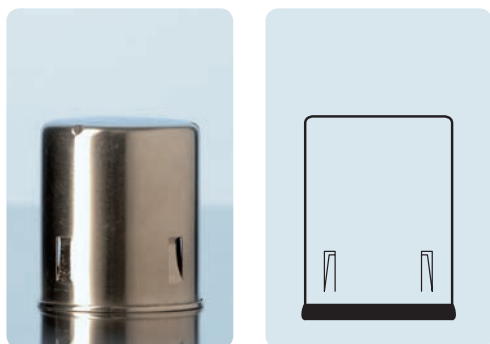


Conical geometry makes the flasks particularly suitable for shaking experiments (e.g. media optimisation). Erlenmeyer flasks with GL screw threads are also available

Typical application: Preparation of cultures in nutrient media.

Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Pack Unit
217712401	100	64	38	114	10
217713209	200	79	38	138	10
217713603	250	85	38	149	10
217713903	300	87	38	161	10
217714402	500	105	38	183	10
217715407	1000	131	38	229	10
217716309	2000	166	38	302	10

Metal Cap



Suitable for: culture flask Cat. No. 21771XXXX, Cat. No. 217746209 and culture media bottle Cat. No. 21773XXXX.

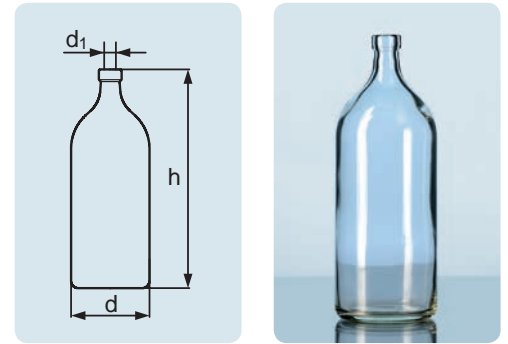
Cat. No.	Material	For neck (mm)	Pack Unit
290122406	Stainless steel	38	10
290132407	Aluminium, anodised blue	38	10

In addition, the following individual parts are available: porcelain clamp closure (Cat. No. 297010803), replacement rubber seal (Cat. No. 299903102) and replacement silicone seal, autoclavable (Cat. No. 299901007).

Typical applications: sampling and cultivation.

Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Pack Unit
without closure					
214612403	100	45	17	135	10
214613605	250	57	17	182	10
214614404	500	74	17	218	10
214615409	1000	95	17	265	10

DURAN® Rolled Flange Bottle

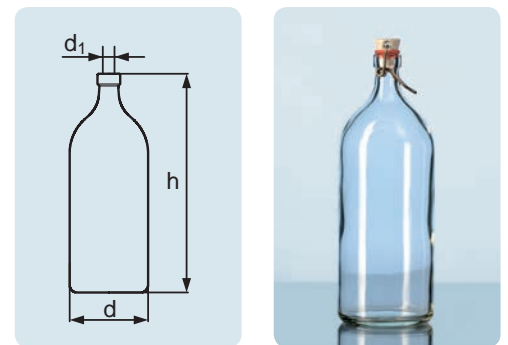


In addition, the following individual parts are available: porcelain clamp closure (Cat. No. 297010803), replacement rubber seal (Cat. No. 299903102) and replacement silicone seal, autoclavable (Cat. No. 299901007).

Typical applications: sampling and cultivation.

Cat. No.	Capacity (mL)	d (OD) (mm)	d ₁ (OD) (mm)	h (mm)	Pack Unit
with clamp closure					
214652407	100	45	17	135	10
214653609	250	57	17	182	10
214654408	500	74	17	218	10
214655404	1000	95	17	265	10

DURAN® Rolled Flange Bottle



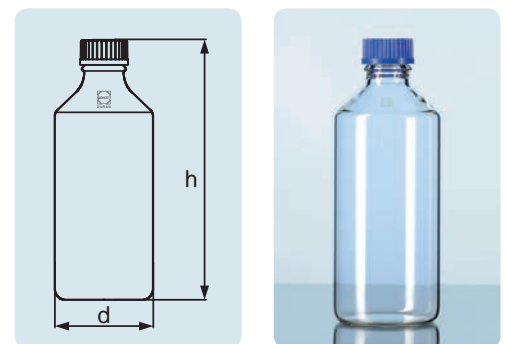
With screw cap and pouring ring (blue, PP).

Typical application: preparation of cultures in nutrient media.

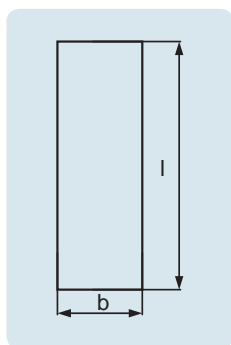
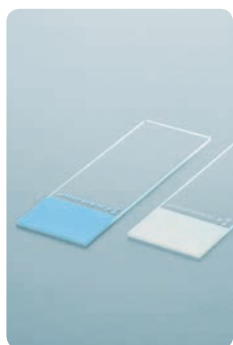
Cat. No.	Capacity (mL)	d (OD) (mm)	h (mm)	Pack Unit
217726856	2000	110	285	2
217728651	3500	110	450	1

DURAN® Roller Bottle for Cell Cultures

with DIN thread, GL 45



Microscope Slides from Soda-lime Glass

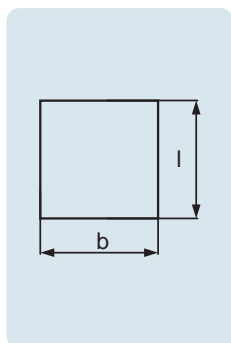


DIN ISO
8037-1

The microscope slides are made from high quality float glass (soda-lime glass) of hydrolytic class 3. Particularly suitable for microscopic examinations. Designed for single use only. Uniform wettability due to flawless surface. It is not necessary to re-adjust the microscope.

Cat. No.	l (mm)	Colour	b (mm)	Pack Unit
with cut edges				
235501103	76		26	30 x 50
235501206	76	frosted end	26	30 x 50
ground edges 45°				
235501309	76		26	30 x 50
235501403	76	frosted end	26	30 x 50
ground edges 90°				
235502202	76	blue	26	30 x 50
235502108	76	white	26	30 x 50
235502305	76	yellow	26	30 x 50
235502408	76	white PRINT	26	30 x 50
235502502	76	white, adhesive with standard coating	26	30 x 50
235502605	76	white, adhesive ++	26	30 x 50

Cover Slips from D 263® M



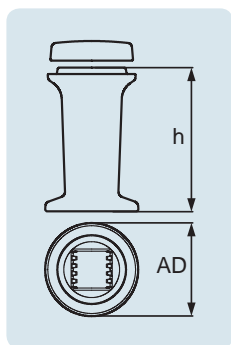
ISO
8255-1

The cover slips are made from pure white borosilicate glass (D 263® M) i.e. absorption-free in the visible spectral range. Cover slips are used as covering material and for fixing preparations during microscopic examinations. They also ensure the distribution of droplets on the microscope slide.

Cat. No.	l (mm)	Wall thickness (mm)	b (mm)	Pack Unit
235503104	18	#1	18	10 x 100
235503207	22	#1	22	10 x 100
235503301	40	#1	24	10 x 100
235503404	50	#1	24	10 x 100
235503507	50	#1.5 Automatic machine	24	10 x 100
235503601	60	#1	24	10 x 100
235503704	60	#1.5 Automatic machine	24	10 x 100

Staining Jar Coplin Type

from Soda-lime Glass



For 10 microscope slides 76 x 26 mm. Note: Do not clean staining dishes and staining jars at temperatures above 60 °C (glass corrosion is possible).

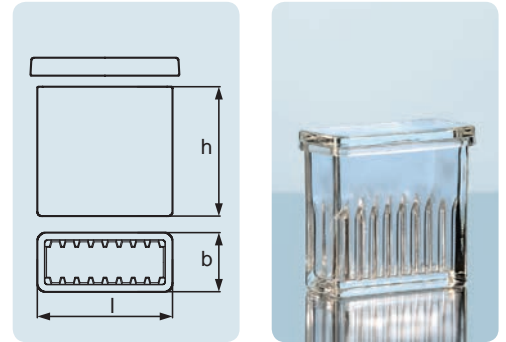
Cat. No.	h (mm)	Outer diameter (AD) (mm)	Pack Unit
233190006	108	66	10

For 10 microscope slides 76 x 26 mm. Note: Do not clean staining dishes and staining jars at temperatures above 60 °C (glass corrosion is possible).

Cat. No.	h (mm)	l (mm)	b (mm)	Pack Unit
233140001	90	90	40	10

Staining Dish Hellendahl Type

from Soda-lime Glass, straight sided

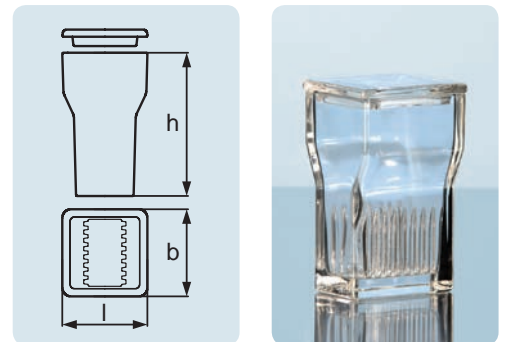


For 16 microscope slides 76 x 26 mm, with widening towards the top. Note: Do not clean staining dishes and staining jars at temperatures above 60 °C (glass corrosion is possible).

Cat. No.	h (mm)	l (mm)	b (mm)	Pack Unit
233150002	100	60	60	10

Staining Dish Hellendahl Type

from Soda-lime Glass

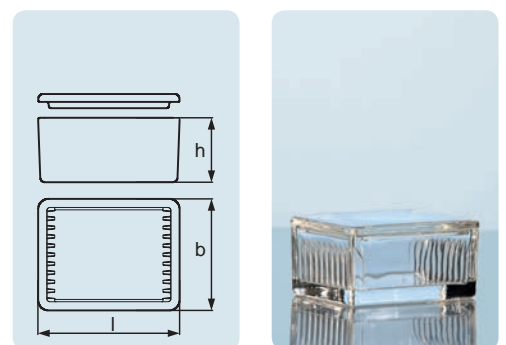


For 10 microscope slides 76 x 26 mm. Note: Do not clean staining dishes and staining jars at temperatures above 60 °C (glass corrosion is possible).

Cat. No.	h (mm)	l (mm)	b (mm)	Pack Unit
233160003	40	90	70	10

Staining Dish Schiefferdecker Type

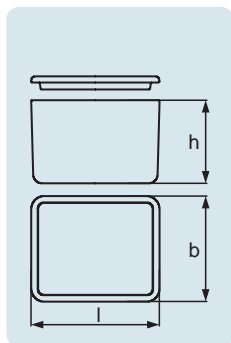
from Soda-lime Glass



07 GLASSWARE FOR MICROBIOLOGY

Glass Box from Soda-lime Glass

for staining tray 213170003

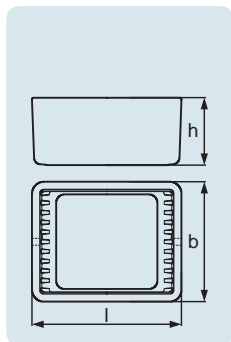


Note: Do not clean staining dishes and staining jars at temperatures above 60 °C (glass corrosion is possible).

Cat. No.	h (mm)	l (mm)	b (mm)	Pack Unit
233180005	70	108	90	10

DURAN® Staining Tray

For 10 microscope slides 76 x 26 mm or each width up to 52 mm.

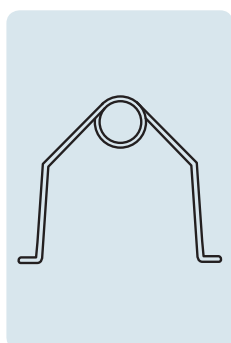
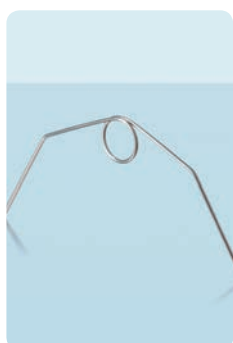


Cat. No.	h (mm)	l (mm)	b (mm)	Pack Unit
213170003	70	88	40	10



Stainless Steel Handle

for staining tray



Cat. No.	Pack Unit
290750002	10

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