

Термоконтейнеры для проб, образцов CARL ROTH Polar Safe, ROTILABO, Alu.Rack

Технические характеристики

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Cooling racks

Cooling box ROTILABO®

ROTH SELECTION. Material: PS (foamed).

Ideal for long-term storage in refrigerators and freezers or as a rack on the laboratory bench.

- Stackable
- Temperature stability -196 to +50 °C



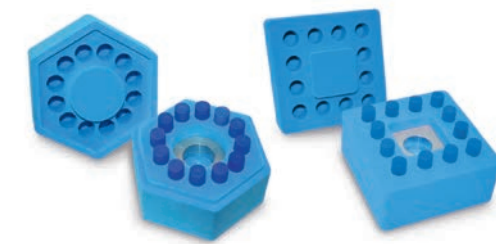
Version	Suitable for	Arrangement of slots	No. of slots	Ø Hole (mm)	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
Slip lid	1.5/2 ml reaction vials, 2 ml cryogenic vials	5 x 20	100	12	338	95	63	K496.2	10 unit(s)	
Slip lid	1.5/2 ml reaction vials, 2 ml cryogenic vials	5 x 10	50	13	210	110	71	N443.2	10 unit(s)	

Cryo-freezing container FreezeCell

ROTH SELECTION. Material: Plastic EVAC (ethylene-vinyl acetate copolymer), core made of aluminium alloy.

Container for the controlled freezing of samples in cryogenic tubes or reaction vials at -80 °C for later cryogenic long-term storage.

- Heat-conducting alloy and optimised insulation for uniform cryo-preservation
- Controlled, reproducible gradual cooling rates for high cell survival rate
- Cooling rate (-1 °C/min) independent of filling quantity
- No alcohol or other coolant required
- Can be used directly without pre-cooling



Directions for use

Place the samples in the freezing container and close the lid. Incubate the freezing container at -80 °C for at least three hours and do not open it during this time. At the end of the incubation period, the samples can be removed and transferred, e.g. to a tank with liquid nitrogen, for long-term storage.

Hexagonal

Suitable for	No. of slots	Outer length (mm)	Outer width (mm)	Outer height (mm)	Weight (g)	Art. No.	Pack Qty.	
1-2 ml cryogenic vials	12	216	189	100	120	1L02.1	1 unit(s)	

Rectangular

Suitable for	No. of slots	Outer length (mm)	Outer width (mm)	Outer height (mm)	Weight (g)	Art. No.	Pack Qty.	
1-2 ml cryogenic vials	12	117	117	100	160	1L03.1	1 unit(s)	



Cooling racks

Cooling system FreezeBox

ROTH SELECTION.

Simple system for cooling samples or for rapid freezing, defrosting and heating. Cooling box, cooling block or cryoblock and cooling module are the perfect combination.



Directions for use

Pre-cool the cooling or cryo block at -20/-80 °C and keep samples cool in the cooling box for several hours on the laboratory bench. Alternatively, the cooling box can be filled with approx. 200 g of dry ice. The cooling module itself does not require any pre-cooling. Do not keep the cooling box in the freezer.

Standard

Pre-cool the cooling block for at least four hours at -20 °C or at least two hours at -80 °C. Duration of use: Four hours (open lid) or six hours (closed lid).

Operating temperature approx. +0.5 to +4 °C.

Delivery incl. cooling box, cooling block and cooling module.

Suitable for	No. of slots	Ø Hole (mm)	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
1.5 ml reaction vials	48	11	170	152	123	1L09.1	1 unit(s)	
2 ml cryogenic vials	30	12.6	170	152	123	1L08.1	1 unit(s)	
5 ml cryogenic vials	30	13.5	170	152	123	1L0A.1	1 unit(s)	
0.2 ml PCR vessels	96	0.7	170	152	123	1L0C.1	1 unit(s)	

Cryogenic

Pre-cool the cryoblock for at least six hours at -20 °C or at least three hours at -80 °C. Duration of use: Three hours (open lid) or five hours (closed lid).

Operating temperature approx. -18 to +4 °C.

Delivery incl. cooling box, cryoblock and cooling module.

Suitable for	No. of slots	Ø Hole (mm)	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
1.5 ml reaction vials	48	11	170	152	123	1L05.1	1 unit(s)	
2 ml cryogenic vials	30	12.6	170	152	123	1L04.1	1 unit(s)	
5 ml cryogenic vials	30	13.5	170	152	123	1L06.1	1 unit(s)	
0.2 ml PCR vessels	96	0.7	170	152	123	1L07.1	1 unit(s)	

Cryo-freezing container Mr. Frosty

Nalgene. Material: PC, lid and tube holder made of HDPE. With foam rubber insert.

Easy to use: Only 100% isopropyl alcohol and a freezer are required. For reproducible, repeated cooling of samples at approx. -1 °C/min. Optimum cellular yield after storage at low temperatures. The tube holder prevents direct contact between the tubes and the alcohol; any marking on the tubes remains readable. The tube holder can be used as a floating stand for thawing samples in the water bath.



Suitable for	No. of slots	Ø ext. (mm)	Outer height (mm)	Art. No.	Pack Qty.	
1-2 ml cryogenic vials	18	120	86	AC96.1	1 unit(s)	

Cooling racks

Cooling box

Nalgene. Material: PC.

For cooling heat-sensitive samples on the lab bench.

- Can be used up to -20 °C (max. -40 °C)
- Protects against temperature fluctuations and power failure
- Markable grid surface on the lid
- Breakproof and stackable with non-slip feet



-20 °C for 12 reaction vials (3 x 4)

Blue base, gel-filled; transparent lid, without gel filling.

Delivery incl. adapter for 0.5 ml reaction vials.

Temperature constancy	Suitable for	Arrangement of slots	No. of slots	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
<-15 °C (-1 h)	0.5-2 ml reaction vials	3 x 4	12	151	108	125	L243.1	1 unit(s)	

-20 °C for 32 reaction vials (4 x 8)

Blue base, gel-filled; white lid with non-toxic gel filling.

Delivery incl. adapter for 0.5 ml reaction vials.

Temperature constancy	Suitable for	Arrangement of slots	No. of slots	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
<-15 °C (-2 h)	0.5-2 ml reaction vials	4 x 8	32	243	157	146	L244.1	1 unit(s)	

0 °C for 12 reaction vials (3 x 4)

Green base, gel-filled; transparent lid, without gel filling.

Delivery incl. adapter for 0.5 ml reaction vials.

Temperature constancy	Suitable for	Arrangement of slots	No. of slots	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
<1 °C (-3,5 h)	0.5-2 ml reaction vials	3 x 4	12	151	108	125	L245.1	1 unit(s)	

0 °C for 32 reaction vials (4 x 8)

Green base, gel-filled; white lid with non-toxic gel filling.

Delivery incl. adapter for 0.5 ml reaction vials.

Temperature constancy	Suitable for	Arrangement of slots	No. of slots	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
<1 °C (-5 h)	0.5-2 ml reaction vials	4 x 8	32	243	157	146	L246.1	1 unit(s)	

0 °C for 12 vials (3 x 4)

Green base, gel-filled; transparent lid, without gel filling.

Temperature constancy	Suitable for	Arrangement of slots	No. of slots	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
<1 °C (-5 h)	Vessel Ø 12-13 mm	3 x 4	12	197	140	190	L247.1	1 unit(s)	
<1 °C (-5 h)	Vessel Ø 16-17 mm	3 x 4	12	197	140	190	L248.1	1 unit(s)	



Cooling racks

Cooling box

Nalgene. Material: PC.

Ideal for quick and repeated cooling of samples. Can be used repeatedly for up to 45 minutes. Cools up to 2 ml of alcohol-based solutions to -20°C in less than 3 minutes or up to 2 ml of water-based solutions to 0°C in less than 4 minutes. Labels and markings do not come off as there is no direct contact between the vessel and the insulating liquid. Breakproof and stackable. Rubber feet to prevent slipping.



Delivery incl. inserts for 0.2 to 0.5 ml vials.

Suitable for	Arrangement of slots	No. of slots	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
0.2–2 ml reaction vials	3 x 4	12	151	108	125	L249.1	1 unit(s)	

Cooling box

ROTH SELECTION. Material: PC, gel-filled.

For cooling heat-sensitive samples such as PCR-reagents or enzymes on the lab bench. With non-slip rubber feet.



0,5-2 ml

Delivery incl. adapter for 0.5 ml reaction vials.

Version	Temperature constancy	Suitable for	No. of slots	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
Gel-filled lid	-15°C (–5 h)	0.5–2 ml reaction vials / Cryogenic vials up to 2 ml	32	245	105	100	NY11.1	1 unit(s)	
Basic lid (transparent)	-15°C (–2,5 h)	0.5–2 ml reaction vials / Cryogenic vials up to 2 ml	12	145	105	100	NY09.1	1 unit(s)	
Basic lid (transparent)	-15°C (–3,5 h)	0.5–2 ml reaction vials / Cryogenic vials up to 2 ml	32	245	105	100	NY10.1	1 unit(s)	

For 32 vials (4 x 8)

Delivery incl. Adapter for 0.5 ml reaction vials

PCR

Also suitable for PCR plates.

Version	Temperature constancy	Suitable for	Arrangement of slots	No. of slots	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
Basic lid (transparent)	-15°C (–3,5 h)	0.2 ml PCR vessels	8 x 12	96	225	165	100	NY12.1	1 unit(s)	

Cooling racks

Cooling box ROTILABO®

ROTH SELECTION. Material: PC, gel-filled, transparent lid.

For cooling heat-sensitive samples on the lab bench, transporting frozen samples or as a storage box in the refrigerator to protect against temperature fluctuations and power failure.

- Double sided, reaction vials 0.5 ml on one side, 1.5/2 ml on the other side
- Holes (Ø 8/12 mm) are alphanumerically coded on both sides



White

Temperature constancy	Suitable for	No. of slots	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
0 °C (-5 h)	0.5–2 ml reaction vials	20	170	110	105	K087.1	1 unit(s)	

Blue

Temperature constancy	Suitable for	No. of slots	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
-15 °C (-2 h)	0.5–2 ml reaction vials	20	170	110	105	K088.1	1 unit(s)	

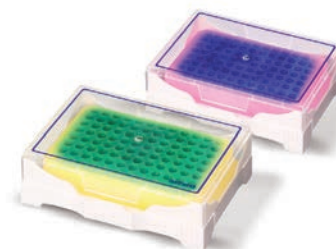
Cooling box ROTILABO® PCR

ROTH SELECTION. Material: PP, with non-toxic gel filling.

For cooling heat-sensitive samples on the lab bench.

Suitable for 0.2 ml PCR vessels, plates and reaction vial strips.

- Rack changes colour from approx. 7 °C
- Recommended storage temperature: -20 °C
- Slot Ø 6 mm
- Height without lid 38 mm



Temperature constancy	Suitable for	Arrangement of slots	No. of slots	Length (mm)	Width (mm)	Height (mm)	Colour conversion	Art. No.	Pack Qty.	
4-7 °C (3 h)	0.2 ml PCR vessels	8 x 12	96	141	99	44	violet to pink	EX48.1	2 unit(s)	
4-7 °C (3 h)	0.2 ml PCR vessels	8 x 12	96	141	99	44	green to yellow	EX49.1	2 unit(s)	

Cooling box PCR

ROTH SELECTION. Material: PP, PC lid.

Ice-free cooling system for preparing and storing PCR single vessels, strips and plates. For heat-sensitive applications, PCR or cell-based assays, as well as for gentle thawing of samples and stopping reactions. After two hours of pre-cooling at -20 °C, a sample temperature of 0 °C is maintained for over one hour or below 5 °C for up to three hours. Colour change if the temperature limit of 6 °C is exceeded.

- Constant and reliable
- Modern design cools down more quickly in freezers and remains colder for longer
- Temperature-stable up to -80 °C
- Vented lid for faster cooling of samples in a freezer compartment
- Lid can be removed completely and can be used as a stand by rotating by 180°
- Alphanumerically coded



Arrangement of slots	No. of slots	Colour conversion	Art. No.	Pack Qty.	
8 x 12	96	from violet to pink	KLA3.1	2 unit(s)	
8 x 12	96	from dark blue to light blue	KLA4.1	2 unit(s)	



Cooling racks

Cooling rack ROTILABO® Alu.Rack

ROTH SELECTION. Material: Aluminium.
For cooling samples in an ice bath.



For 0.2/1.5 ml reaction vials

Compatible with PCR trays, PCR strips or 96 PCR single vessels. Additional 6 slots for 1.5 ml reaction vials.

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
100	8 x 12 / 6	115 x 90 x 15	N470.1	1 unit(s)	

For 0.5/1.5 ml reaction vials

With 36 slots for 0.5 ml reaction vials and 11 slots for 1.5 ml reaction vials.

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
47	4 x 6 / 11	180 x 90 x 15	N548.1	1 unit(s)	

For 1.5 ml reaction vials

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
24	4 x 6	115 x 90 x 30	EP69.1	1 unit(s)	

For 2 ml reaction vials

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
24	4 x 6	115 x 80 x 30	KH56.1	1 unit(s)	

Cooling rack ROTILABO® for centrifuge tubes

ROTH SELECTION. Material: Aluminium.
For cooling samples in an ice bath.



Arrangement of slots	No. of slots	Ø Hole (mm)	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
3 x 4	12	17	95	70	95	KKK3.1	1 unit(s)	

Cooling racks

Cooling rack Polar Safe™

ROTH SELECTION. Material: Aluminium, blue, anodised.
Autoclavable: Yes.

Ideal for use on ice, dry ice, in water baths or liquid nitrogen. With side recesses for safe grip. Temperature stable up to -196 °C.



A 121 °C



Note: Frequent autoclaving and cleaning can cause colour changes.

For 2 ml cryogenic tubes

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
15	3 x 5	113 x 77 x 38	EKP9.1	1 unit(s)	

For 1.5/2 ml reaction vials

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
15	3 x 5	113 x 77 x 38	EKT0.1	1 unit(s)	

For 0.5 ml reaction vials

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
24	4 x 6	113 x 77 x 33	EKT1.1	1 unit(s)	

PCR 96-well

Compatible with PCR trays, PCR strips and single vessels.

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
96	8 x 12	113 x 77 x 20	EKT2.1	1 unit(s)	

PCR 384-well

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
384	16 x 24	113 x 77 x 13	EKT3.1	1 unit(s)	



Cooling racks

Cooling rack

ROTH SELECTION. Material: Metal (thermally conductive), anodised.
Autoclavable: Yes.

Suitable for cooling samples on ice, dry ice or in the vapour phase of liquid nitrogen as well as for heating samples in water baths and incubators.

- Slots are labelled alphanumerically
- Temperature stable up to -150 °C



A121 °C



For reaction vials

For 1.5/2 ml reaction vials and 0.5 to 2 ml screw cap vials.

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
6	2 x 3	60 x 43 x 32	CXK6.1	1 unit(s)	
15	3 x 5	96 x 60 x 32	CXK7.1	1 unit(s)	
30	5 x 6	114 x 96 x 32	CXK8.1	1 unit(s)	
90	6 x 15	274 x 114 x 32	CXK9.1	1 unit(s)	
96	8 x 12	221 x 149 x 32	CXL0.1	1 unit(s)	

For cryogenic vials

No. of slots	Arrangement of slots	L x W x H (mm)	Art. No.	Pack Qty.	
15	3 x 5	128 x 85 x 32	CXL1.1	1 unit(s)	
24	4 x 6	96 x 60 x 32	CXL2.1	1 unit(s)	

For PCR trays

SBS dimensions, compatible with automated systems.

No. of slots	L x W x H (mm)	Art. No.	Pack Qty.	
384	128 x 85 x 23	CXL6.1	1 unit(s)	
96	128 x 85 x 25	CXL5.1	1 unit(s)	

Cooling rack ROTILABO® for sample vials

ROTH SELECTION. Material: Aluminium.

For cooling samples in an ice bath.



Suitable for	Arrangement of slots	No. of slots	Ø Hole (mm)	Length (mm)	Width (mm)	Height (mm)	Art. No.	Pack Qty.	
Sample vials 1.5–2 ml	7 x 14	98	12	220	110	30	KKY5.1	1 unit(s)	
Headspace vials 20 ml	4 x 8	32	22.5	220	110	30	KKY6.1	1 unit(s)	

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