

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саранск (8342)22-96-24
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Улан-Удэ (3012)59-97-51
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

<https://ratiolab.nt-rt.ru> || rbf@nt-rt.ru

КАТАЛОГ



THINK! Development and production of customized products



Pipettes & Equipment



Liquid handling products



Labware for general lab applications



Life science products for microbiology and biotechnology




Cryo products for deep-freeze applications

ratiolab[®]
disposables for sciences

rati50lab®






disposables for sciences

50 years of excellence



ratiolab®

benefit
attention
long lifetime
outstanding
innovation
technology
aftersale service
resistance

-  **TIHBC** Development and production of customized products
-  Pipettes & Equipment
-  Liquid handling products
-  Labware for general lab applications
-  Life sciences products for microbiology and biotechnology
-  Cyro products for deep freeze applications

Content



THINK! Development and production of customized products

We give reality to your ideas!.....	10
Development and design	11
Tool and mold construction.....	11
Plastics production.....	12
Assembly.....	13
Logistic.....	13



Pipettes & Equipment

Slamed Precision Single Channel Pipette	16
Slamed Single Channel Pipette L	17
Slamed Fix Volume Pipette CP.....	18
Slamed Multichannel Pipette ME/MT	19
Slamed Pipette Stands	19
ratiopetta®	20
Incubator.....	22
Coagulometer CC-4000	23
Slamed Bottle-Top Dispensers.....	24
Dispetta Dispenser.....	25
Pipetting Aid Accupetta.....	25



Liquid handling products

Pipetting reservoirs	28
Pipette Tips.....	29
Pipette Tips System and Refill System Multirack advanced, MultiTray® advanced, Multibox® plus advanced and Multibox® ultra advanced New	30
aeroject® ultra Pipette Filter Tips.....	36
aeroject® eco Pipette Filter Tips New	37
Serological Pipette.....	38
Sterilizing Pipette Box.....	39
Pasteur-Plast Pipettes	40
Dispenser Tips	43



Labware for general lab applications

Cuvettes.....	46
Multicell Cuvettes.....	49
Analysis Beakers	50
Scintillation Vessels	50
Cell Counter Vials	51
Centrifuge Tubes	51
Microcentrifuge Tubes	52
Test Tubes.....	54
Stoppers.....	54
Multistand Plus Rack New	55
Rack for Microcentrifuge Tubes.....	55

Waste Disposal Bags, autoclavable at 121 °C	56
Waste Disposal Bags, autoclavable at 134 °C	58
Bench-top stand	60
Transport bags, Biohazard	60
Cleanibag System	60
Petri Dishes New	61
Inoculating Loops	61
Multi Purpose Beaker	62
Multi Purpose Bottles	62
Ear Tips	63
Ear Funnels	63



Life science products for
microbiology and biotechnology

Micro Test Plates, 300 µl	66
Micro Test Plates, 400 µl	66
Micro Test Plates	67
Lids for Micro Test Plates	67
Spot Test Plates	67
Low-Profile Deep-Well-Plates	68
Deep-Well-Plates New	69
Closures for Deep-Well-Plates	70
PCR Tubes	71
PCR Plates New	72
PCR Racks	73
Micro-Tube System	74
Cover Films New	76



Cryo products for
deep-freeze applications

Cryo Boxes, Cardboard, Format 133 x 133 mm, Grid Inserts	80
Cryo Boxes, Cardboard, Format 130 x 62 mm	81
Rainbow Cryo Labels	81
Cryo Boxes, Cardboard, Format 136 x 136 mm Grid Inserts	82
Cryo Boxes, Cardboard, Format 134 x 67 mm; 75 x 75 mm	83
Format 136 x 136 x 75 mm; 148 x 148 x 130 mm	83
Cryo Boxes with Slip Lid, PP, Format 133 x 133 mm	84
Cryo Boxes with Grids, PP, Format 133 x 133 mm	85
Cryo Boxes and Grid Inserts, PP, Format 133 x 133 mm	86
Cryo Boxes with Grids, PC, Format 132 x 132 mm; 76 x 76	87
Cryo Tubes	88
Cryo Tube Accessories	89
Cryo Racks for Freezer Chests New	90
Cryo Racks for Freezer Cabinets	91
Customized Racks	92

**Technical
information**

Chemical resistance of plastics	96
Order Number Index	100

ratiolab subsidiaries:

• **Dreieich-Buchsschlag, Germany**

Headquarters featuring development, sales logistics and administration, all comprising an area of 4,400m².

• **Szada, Hungary**

State-of-the-art production facility, which, since its original setup in 2018, has quintupled in size.

• **Dubai, United Arab Emirates**

Distribution office for the Middle East Region.

Our approximately 85 employees are the basis foundations for our sustainable success. Their competence, motivation and a high degree of social competence are the guarantees for our future growth. Our team lives our values every day.



Dreieich-Buchsschlag, Germany



Dreieich-Buchsschlag, Germany

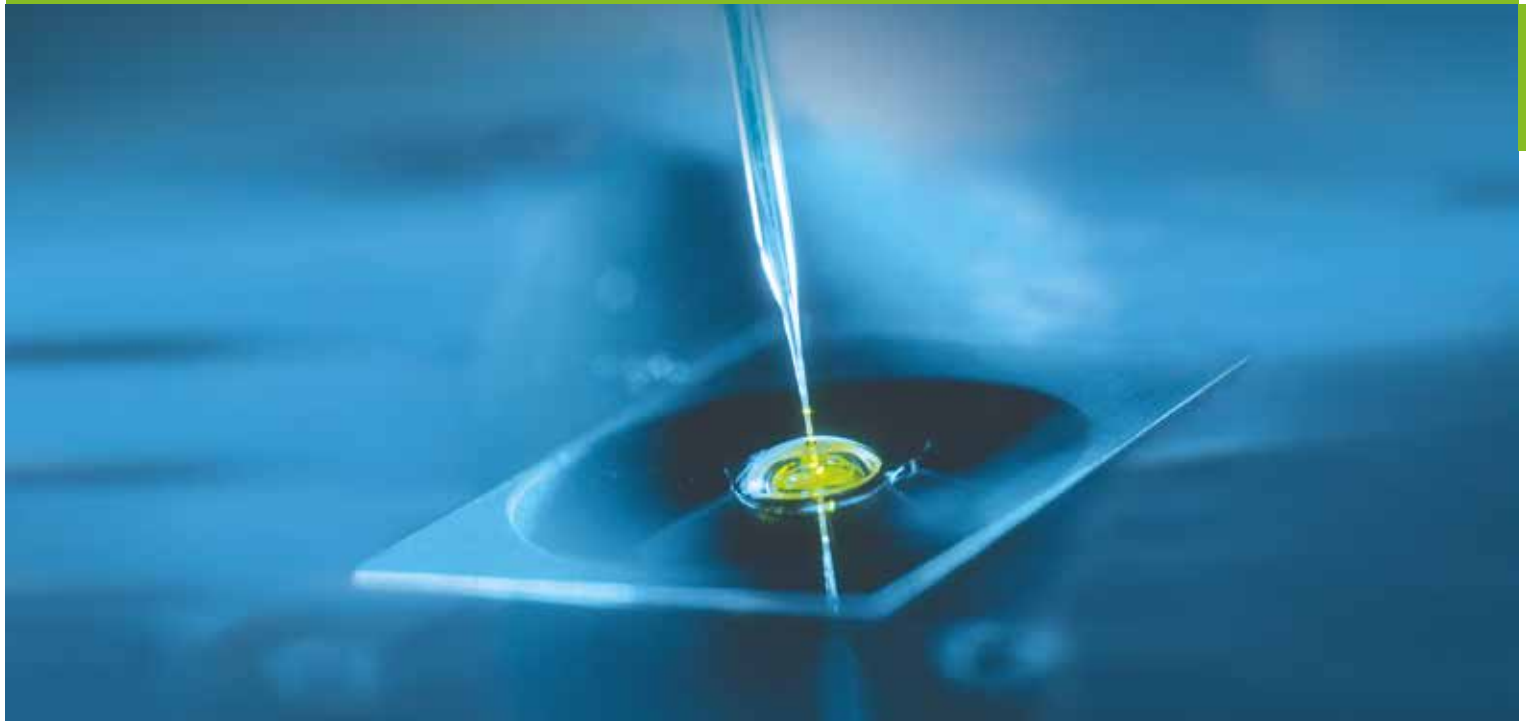


Szada, Hungary



Szada, Hungary

Think!



Think! Development and production of customized products



Pipettes & Equipment



Liquid handling products



Labware for general lab applications



Life science products for microbiology and biotechnology



Cryo products for deep-freeze applications

Think!

Development and production of customized products

We give reality to your ideas!

Disposables often have to be as individual and sophisticated as their future field of application.

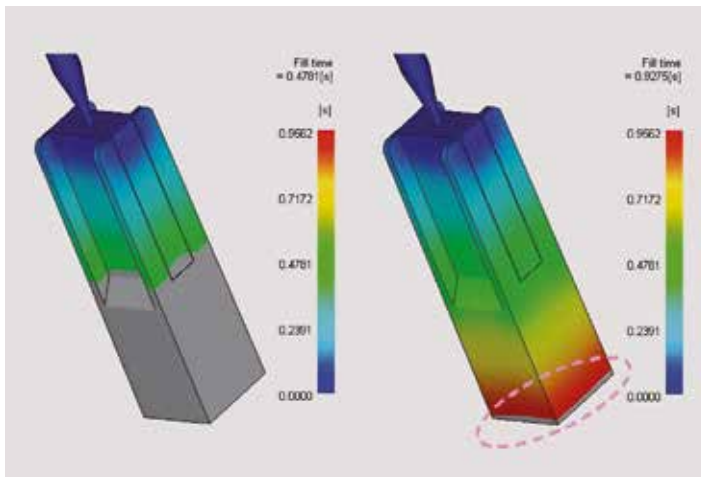
This is where we come in with our "Think" division. Together with our customers, we develop high quality, individual plastic articles. For this purpose, our entire know-how, many years of experience and state-of-the-art technology are at your disposal. Our range of services includes the following areas:



Development and Design

Together with you, we develop your product according to your ideas and requirements. The goal is to provide you with a production-ready and cost-conscious design that considers your customer standards.

- deliberation and transfer of know-how in joint workshops
- creation of a specification sheet based on your requirements
- 3D-CAD design with state-of-the-art programs
- prototyping - production of initial and manual samples using 3D printing and other selected processes
- creation of initial sample reports using 3D measuring machines



Tool and Mold Making

Intelligently designed tools are decisive for successful serial production. Especially for consumables produced in large quantities, factors such as process stability and long tool life are crucial.

- production of tools for plastics processing
- jig and fixture construction
- maintenance and repair of tools



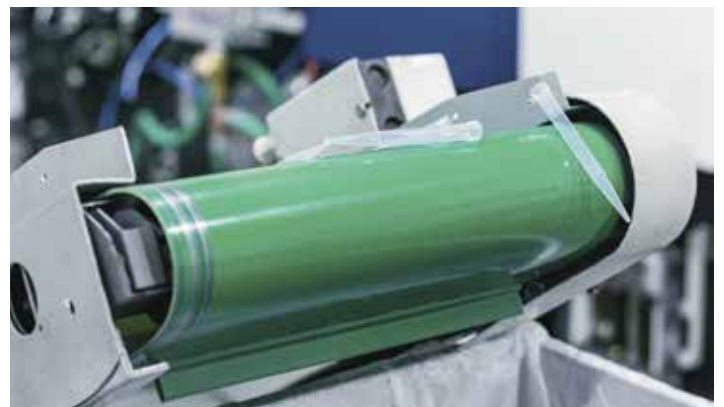
Think!

Development and production of customized products

Plastics Processing

With a highly modern machine park and in a controlled dust-free environment, we manufacture complex and precise plastic products from small to large series in 3-shift operation at our location in Szada. The automated removal, as well as the subsequent handling of the products, are also our competence.

- plastic injection molding production on highly modern machines
- Class 8 and 7 clean room capacities
- state-of-the-art removal systems ensure the safe handling of the products
- highly automated handling systems for efficient further processing of the products in large quantities and fast cycles



Packaging

Our packaging is the individual post-processing of products. Here, we offer the following services for small and large series:

- Quality control
- Packaging of bulk goods as well as manual loading of packaging devices
- Pad printing
- Ultrasonic welding of plastic products



Logistics

We have a large, well-organized warehouse facility. Every day we pick and dispatch numerous shipments all over the world. We are happy to organize the shipping to you or directly to your customers!

Dreieich-Buchsschlag, Germany



Szada, Hungary



Liquid handling



Think! Development and production of customized products



Pipettes & Equipment



Liquid handling products



Labware for general lab applications



Life science products for microbiology and biotechnology



Cryo products for deep-freeze applications

Pipetting Reservoirs

Pipetting reservoirs

The ratiolab® pipet reservoirs made of white polystyrene (PS) are ideal for the repetitive filling of single and multi-channel pipette.

Because of the innovative design, these disposable items are both space-saving and stackable. Their broad edges give them a firm and safe stand. They are thus an uncomplicated and clean alternative to reusable reservoirs. The material is recyclable.

This product line is available in three application-oriented versions:

Version -Figure- 1

- single reservoir with max. volume 50 ml
- angled bottom for practically complete withdrawal of sample and hence economical in use
- groove graduations at 10, 15, 20 and 25 ml
- labeling area

Version -Figure- 2

- extra large single reservoir with max. volume 100 ml
- graduations at 50 and 100 ml
- conical bottom for economy due to minimum loss of medium

Version -Figure- 3

- specially designed for use with 8-channel pipette
- 8 separate channels of 6 ml volume (= 48 ml total)

Versions 1–3 are available gamma-sterilized or non-sterile.

Pipetting reservoirs made of PS

Volume	Fig. No.	Sterilized	Quantity per Pack	Order No.
50 ml	1	–	bags 20 x 5	9420018
50 ml	1	■	bags 20 x 5	9425518
100 ml	2	–	bags 20 x 5	9420017
100 ml	2	■	bags 20 x 5	9425517

Pipetting reservoirs made of PS for 8-channel precision pipetting

Volume	Fig. No.	Sterilized	Quantity per Pack	Order No.
6 ml	3	–	bags 20 x 5	9420016
6 ml	3	■	bags 20 x 5	9425516



Pipette Tips

Pipette tips

ratiolab® pipette tips are ideal for all commercially available pipette. Their uniform high quality and precision make today's pipette fully effective. Using the pre-filled Multirack advanced or the Refill System,

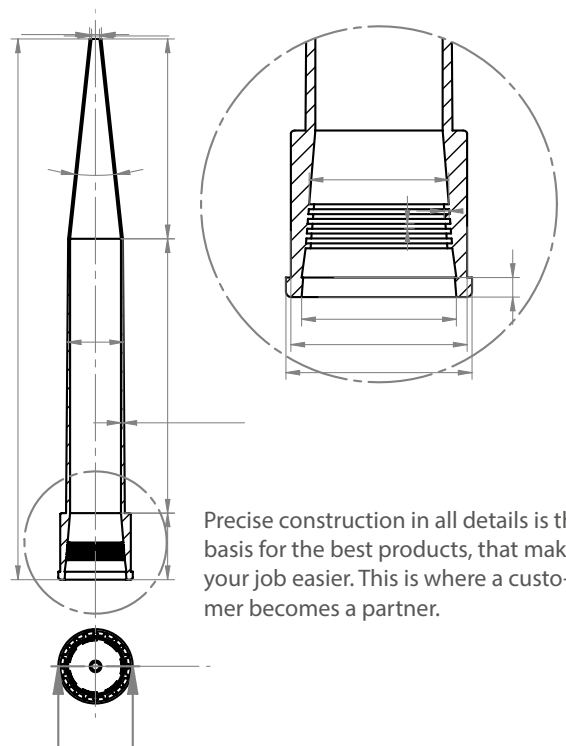


the latter comprising a ratiolab® Multibox plus advanced or Multibox ultra advanced with suitable pipette tips in the MultiTray® advanced, makes professional pipetting simple and safe at any time. Our pipette tips perfectly fit manual or electronic, single or multichannel pipette.

Precision in each and every detail – a guarantee for the highest quality.

- made of high-quality polypropylene
- tight fit due to precisely fitting cone
- optimal handling due to stable shape
- autoclavable
- guaranteed dust-free due to special ionization treatment
- available pre-sterilized or non-sterile
- excellent transparency due to high-quality surfaces
- minimal residual wetting due to controlled quality of raw materials
- excellent volume accuracy due to precise tip orifice
- practice-oriented tip volumes
- aroject® tips with special filters made of hydrophobic HD-PE as an aerosol barrier and for protection against contamination
- suitable for all commonly used pipette types

This is why ratiolab® pipette tips always provide perfect results.



Pipette Tips System and Refill System



Pipette Tips System **New**

Multirack advanced

The ratiolab® Multiracks advanced provide even more time-saving, perfect hygienic conditions and simple operation.

- the pipette tips are placed on a robust matrix, in an 8 x 12 format for all tips
- the tips can be picked up by 1, 8 or 12-channel pipettors as well as by pipetting robots contamination-free and without any hand contact
- the Multiracks advanced are durable and steady, and the hinged cover can be opened up to 180°
- after work, the Multiracks advanced can be closed firmly through a click closure to protect the tips from dust
- the Multiracks advanced are completely autoclavable at 121 °C, 20 minutes
- Multiracks advanced are available in sterile and non-sterile packs

Order information on pages 32-35.

Pipette Tips Refill System **New**

Multibox® plus advanced and -ultra advanced / MultiTray® advanced System

The ratiolab® Multibox® plus advanced and -ultra advanced / MultiTray® advanced system simplifies pipette tips handling and provides more safety.

MultiTray® advanced, the dust-proof refill packs made of plastics for ratiolab® pipette tips, hold the tips in plastic matrices. Up to five plastic matrices filled with tips are stacked on top of each other in the space-saving MultiTray® advanced.

The matrices contain 96 pipette tips in the 8 x 12 standard format. The matrices can simply be removed from the Multibox® advanced with the two-finger tabs.

The MultiTray® advanced matrices fit securely into the Multibox® plus advanced and -ultra advanced with a soft click. The framework of the Multibox® plus advanced and -ultra advanced provides full support for the MultiTray® advanced matrices – resulting in convenient and safe tip pick-up, even with 8- and 12-channel pipettors. For tip removal, the dustproof, hinged cover of the Multibox® plus advanced and -ultra advanced may be opened completely or partially by using the additional sliding mechanism. For cleaning the lid can be removed.

The ratiolab® Multibox® plus advanced and -ultra advanced / MultiTray® advanced system is space- and cost-saving. It reduces the amount of waste and provides more convenient and safe pipetting and sterilization.



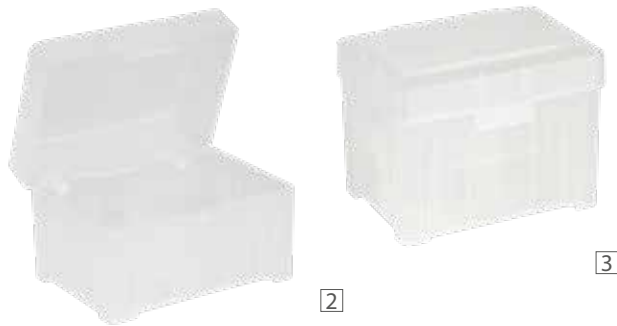
Pipette Tips Refill System



Multibox® plus advanced and -ultra advanced for MultiTray® advanced pipette tips

Reusable pipette tip boxes for the ratiolab® MultiTray® advanced refill systems.

- Multibox® plus advanced, PC, with dust-proof hinged and sliding lid, completely removable
- Multibox® ultra advanced, PP, with hinged lid
- can be autoclaved several times at 121 °C, 20 min
- quantity per pack: 1 pc.
- scope of delivery: Multibox® plus advanced or -ultra advanced without MultiTray® advanced and without pipet tips



Product	Fig. No.	Volume	Order No.
ratiolab® Multibox® plus, advance PC, empty, for all MultiTray® advanced pipette tips	1	up to 1.200 µl	8010161
ratiolab® Multibox® ultra advance PP, empty, for all MultiTray® advanced pipette tips	2	up to 300 µl	New 8030140
ratiolab® Multibox® ultra advance PP, empty, for all MultiTray® advanced pipette tips	3	up to 1.200 µl	New 8030150



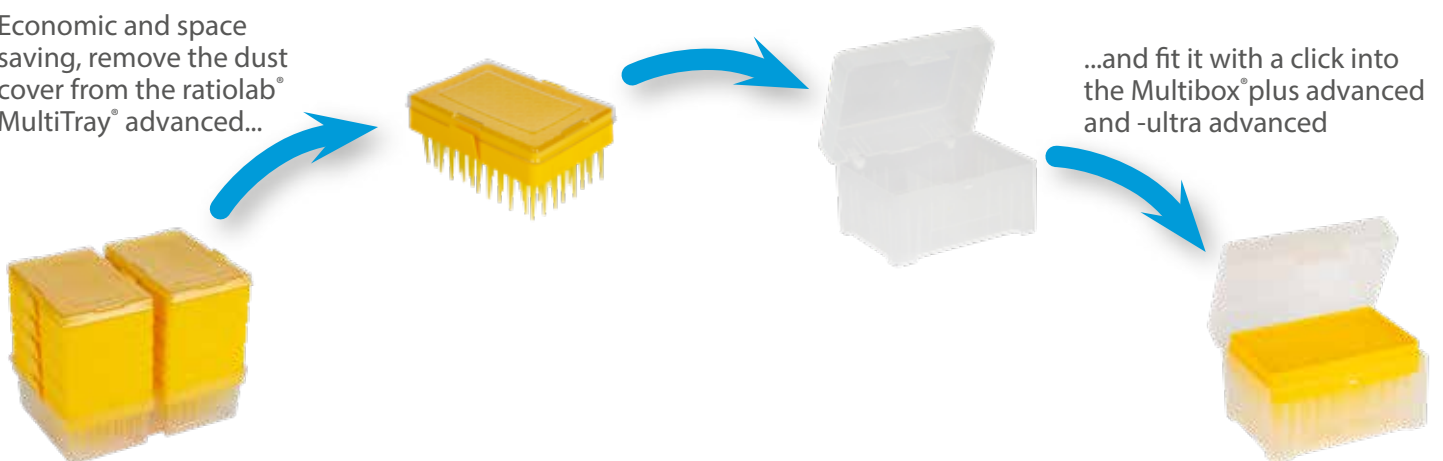
MultiTray® advanced for Multibox® plus advanced and Multibox® ultra advanced

- dust-proof refill pack with several plastic matrices filled with tips
- the most functional, environmentally friendly, space and cost-saving packaging
- autoclavable up to 121 °C

Order information on pages 31-33.

Economic and space saving, remove the dust cover from the ratiolab® MultiTray® advanced...

...lift a single dust-proof tip matrix,...



...and fit it with a click into the Multibox® plus advanced and -ultra advanced

Pipette Tips

Pipette Tips

Type	Volume Range μ l	Length mm	Packaging	Fig. No.	Quantity per Pack	Order No.
Crystal pipette tip "E", for ratiopetta[®], slamed[®] and all commonly used pipette 	0,5-20	45,80	bag 1x1000	1	1000	2500170
			Multirack advanced 10x96	2	960	New 2514172
			Multirack advanced, sterilized 10x96	2	960	New 2554172
			MultiTray [®] advanced 10x96	3	960	New 2540172
Crystal pipette tip "G", for ratiopetta[®], slamed[®] and all commonly used pipette 	0,1-10	31,30	bag 1x1000	1	1000	2500190
			Multirack advanced 10x96	2	960	New 2514192
			Multirack advanced, sterilized 10x96	2	960	New 2554192
			MultiTray [®] advanced 10x96	3	960	New 2540192
Crystal pipette tip xl, for ratiopetta[®], slamed[®] and all commonly used pipette 	0,1-10	45,50	bag 1x1000	1	1000	2100500
			Multirack advanced 10x96	2	960	New 2514502
			Multirack advanced, sterilized 10x96	2	960	New 2554502
			MultiTray [®] advanced 10x96	3	960	New 2540502
Yellow pipette tip "E", for ratiopetta[®], slamed[®] and all commonly used pipette 	1-200	49,50	bag 1x1000	1	1000	2100600
			Multirack advanced 10x96	2	960	New 2114602
			Multirack advanced, sterilized 10x96	2	960	New 2154602
			MultiTray [®] advanced 10x96	3	960	New 2140602
Colorless pipette tip "E", for ratiopetta[®], slamed[®] and all commonly used pipette 	1-200	49,50	bag 1x1000	1	1000	2400600
			Multirack advanced 10x96	2	960	New 2414602
			Multirack, advanced sterilized 10x96	2	960	New 2454602
			MultiTray [®] advanced 10x96	3	960	New 2440602
Pipette tip "Oxford", for all commonly used pipette 	1-200	65,30	bag 1x1000	1	1000	2500110
Pipette tip "MLA", for all commonly used pipette 	1-200	47,50	bag 1x1000	1	1000	2500140



1









2



3

Pipette Tips

Pipette Tips

Type	Volume Range μ l	Length mm	Packaging	Fig. No.	Quantity per Pack	Order No.
Pipette tip "wide bore", for all commonly used pipette, ratiopetta®	1-200	50,50	bag 1x1000	1	1000	2100553
						
Yellow pipette tip "universal", for ratiopetta®, slamed® and all commonly used pipette	1-250	51,20	bag 1x1000	1	1000	2500160
			Multirack advanced 10x96	2	960	2514162
			Multirack advanced, sterilized 10x96	2	960	2554162
			MultiTray® advanced 10x96	3	960	2540162
Colorless pipette tip "universal", for ratiopetta®, slamed® and all commonly used pipette	1-250	50,00	bag 1x1000	1	1000	2500163
			Multirack advanced 10x96	2	960	2514163
			Multirack advanced, sterilized 10x96	2	960	2554163
			MultiTray® advanced 10x96	3	960	2540163
Blue pipette tip "E", for ratiopetta®, slamed® and all commonly used pipette	100-1200	70,94	bag 1x1000	1	1000	2100610
			Multirack advanced 10x96	2	960	2114612
			Multirack advanced, sterilized 10x96	2	960	2154612
			MultiTray® advanced 10x96	3	960	2140612
Colorless pipette tip "E", for ratiopetta®, slamed® and all commonly used pipette	100-1200	70,94	bag 1x1000	1	1000	2400610
			Multirack advanced 10x96	2	960	2414612
			Multirack advanced, sterilized 10x96	2	960	2454612
			MultiTray® advanced 10x96	3	960	2440612
Pipette tip "MLA", for all commonly used pipette	100-1000	86,30	bag 1x1000	1	1000	2500150
						



1



2



3

Pipette Tips

Pipette Tips

Type	Volume Range μ l	Length mm	Packaging	Fig. No.	Quantity per Pack	Order No.
Pipette tip "wide bore", for ratiopetta [®] , slamed [®] and all commonly used pipette	100-1000	88,84	bag 1x1000	1	1000	2100555
Pipette Tip Dr. Lange, for Dr. Lange Pipette	100-1000	86,30	bag 1x1000	1	1000	2500130
Pipette Tip, for ratiopetta [®] , slamed [®] and all commonly used pipette	50-1250	104,00	bag 1x500	1	500	New 2400660
Colorless pipette tip "ES", for pipette Socorex Calibra [®]	500-2500	115,00	bag 1x250	1	250	2500180
Pipette Tip "Finntip", for pipette Thermo Scientific [®] , Dr. Lange [®] , Brand [®]	1000-5000	147,60	box 1x75	4	75	2400620
			bag 1x1000	1	1000	2400622
			bag 1x3000	1	3000	2400623
			bag 1x500	1	500	2400624
			rack 1x50	5	50	2410620
Pipette Tip "Makro", for pipette Eppendorf Research [®] Plus, Gilson [®] , Pipetman [®]	1000-5000	119,70	bag 1x250	1	250	2400630
			rack 1x50	6	50	2410630
			rack, sterilized 1x50	6	50	2453630



1



4









5



6

Pipette Tips

Pipette Tips

Type	Volume Range μ l	Length mm	Packaging	Fig. No.	Quantity per Pack	Order No.
Pipette Tip "Makro II", for ratiopetta [®] , Socorex Accura [®]	1000-5000	126,00	bag 1x300	1	300	2400650
			rack 1x50	5	50	2410650
			rack, sterilized 1x50	5	50	2453650
						
Pipette Tip "Makro III", for pipette Eppendorf Research [®] plus	1000-5000	133,30	bag 1x300	1	300	2400653
			rack 1x50	5	50	2410653
			rack, sterilized 1x50	5	50	2453653
						
Pipette Tip „Makro IV“, for Slamed [®] Precision and Gilson [®]	1000-5000	124,00	bag 1x250	1	250	2400655
						
Pipette Tip colorless, for Slamed [®] Precision and Eppendorf [®] Pipette	1000-10000	161,00	bag 1x200	1	100	2400645
						
Pipette Tip "Finntip", for pipette Thermo Scientific [®] , Socorex Acura [®] , Gilson [®]	2000-10000	150,20	bag 1x100	1	100	2400640
			rack 1x25	5	25	2410640
			rack, sterilized 1x25	5	25	2453640
						
Pipette Tip, for Pipette Brand [®] , Socorex Acura [®] , Gilson [®]	1000-10000	153,60	bag 1x100	1	100	2400642
			rack 1x25	5	25	2410642
			rack, sterilized 1x25	5	25	2453642
						



1



4



5



6

aeroject® ultra Pipette Filter Tips






free of RNase-, DNase-, DNA, ATP-,
pyrogens, and PCR inhibitors-,
Low Retention



aeroject® ultra filter tips – Pipette Tips with Aerosol Barrier

Pipette tips with special filters, to effectively prevent the pipettor shaft from contamination with aerosols and liquids to be sucked into the pipettor.

- sterilized
- free of RNase, DNase, pyrogens and ATP
- free of human DNA and PCR inhibitors
- pipette tips and aerosol filters made of ultra-hydrophobic HD-PE
- minimized retention due to special surface treatment
- perfect and tight fit on all major pipettor brands
- aeroject® ultra 1770010 and 1771000xl with extended length for operation with narrow vessels and reduced risk of cross-contamination
- packed in plastic racks with hinged lids

Type	Volume Range μ l	Length mm	Packaging	Quantity per Pack	Order No.
Pipette Tip aeroject® ultra tips xl, for all commonly used pipette, ratiopetta®	0,1-10	45,60	Racks 10 x 96	960	1770010
					
Pipette Tip aeroject® ultra tips, for all commonly used pipette, ratiopetta®	1-20	50,80	Racks 10 x 96	960	1770020
					
Pipette Tip aeroject® ultra tips, for all commonly used pipette, ratiopetta®	1-100	50,80	Racks 10 x 96	960	1770100
					
Pipette Tip aeroject® ultra tips, for all commonly used pipette, ratiopetta®	1-200	50,80	Racks 10 x 96	960	1770200
					
Pipette Tip aeroject® ultra tips, for all commonly used pipette, ratiopetta®	100-1000	86,00	Racks 10 x 96	960	1771000xl
					

aeroject® eco Pipette Filter Tips

Reduce your plastic waste!



aeroject® eco filter tips – Pipette Tips with Aerosol Barrier

Pipette tips aroject® eco with special filters, to effectively prevent the pipettor shaft from contamination with aerosols and liquids to be sucked into the pipettor.

- sterilized
- free of RNase, DNase, pyrogens and ATP
- free of human DNA and PCR inhibitors
- pipette tips and aerosol filters made of ultra-hydrophobic HD-PE
- minimized retention due to special surface treatment
- perfect and tight fit on all major pipettor brands
- aroject® eco 1720010 and 1721000 with extended length for operation with narrow vessels and reduced risk of cross-contamination
- packed in sustainable cardboard box

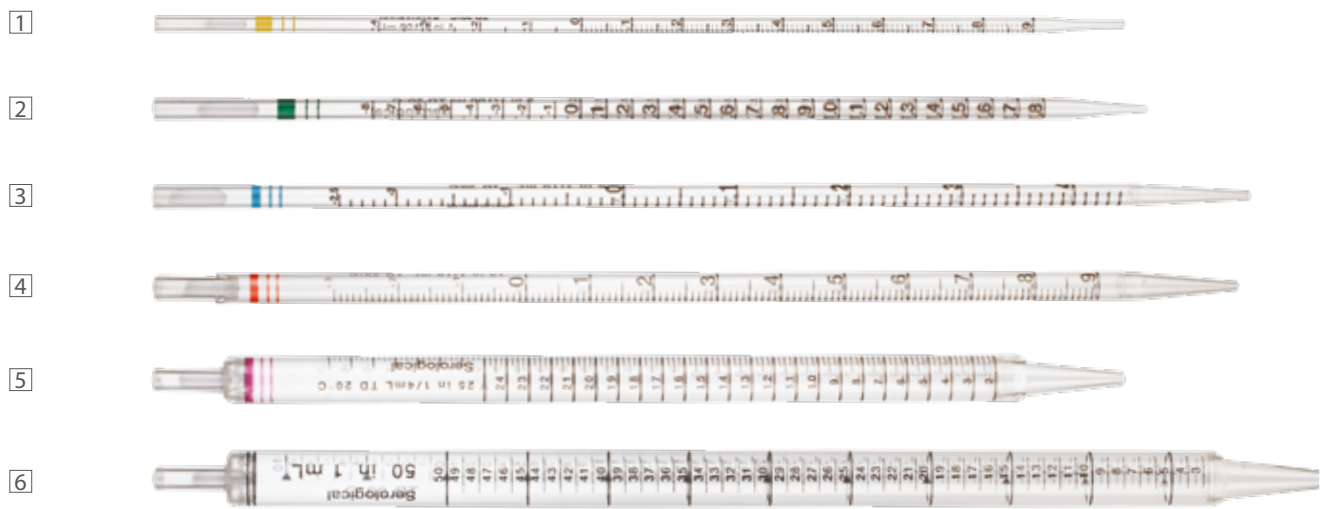
Type	Volume Range μ l	Length mm	Packaging	Quantity per Pack	Order No.
Pipette Tip aroject® eco tips xl, for all commonly used pipette, ratiopetta®	0,1-10	45,60	Racks 10 x 96	960 New	1720010
Pipette Tip aroject® eco tips, for all commonly used pipette, ratiopetta®	1-20	50,80	Racks 10 x 96	960 New	1720020
Pipette Tip aroject® eco tips, for all commonly used pipette, ratiopetta®	1-100	50,80	Racks 10 x 96	960 New	1720100
Pipette Tip aroject® eco tips, for all commonly used pipette, ratiopetta®	1-200	50,80	Racks 10 x 96	960 New	1720200
Pipette Tip aroject® eco tips, for all commonly used pipette, ratiopetta®	100-1000	86,00	Racks 8 x 96	768 New	1721000

Serological Pipette

Serological Pipette

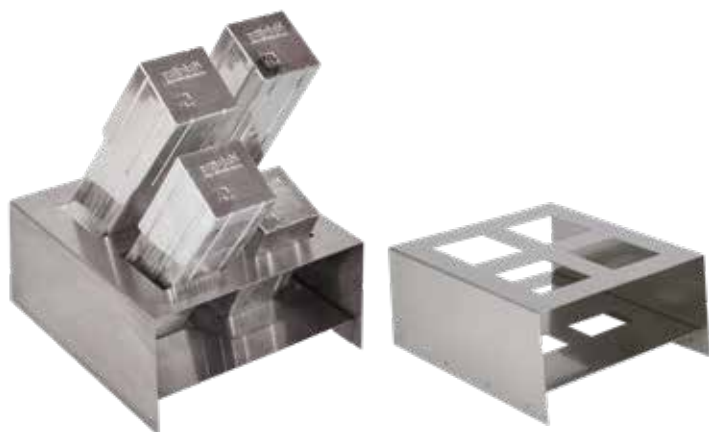
Crystal-clear polystyrene (PS).

- free of RNase, DNase, DNA, pyrogens
- non-toxic, TSE/BSE free
- permanent black-embossed graduations
- with color-coded ring for convenient identification, standard color code
- sterile, individually packed
- packed: plastic/paper
- negative graduation for additional capacity
- accuracy is +/- 2-3%.
- with cotton plug



Positive Volume ml	Fig. No.	Negative Volume ml	Graduation ml	Length mm	Quantity per Pack	Order No.
1	1	0.04	0.01	279.40	1000	3101011
2	2	0.08	0.01	282.58	1000	3102011
5	3	2.5	0.1	348.15	200	3105011
10	4	3.0	0.1	346.81	200	3110011
25	5	7.0	0.25	310.90	200	3125011
50	6	10.0	1.0	368.17	100	3150011

Sterilizing Pipette Box



Sterilizing Pipette Box

Aluminium.

Pipette boxes with optimized easy handling in every day's work. The cylindrical pipette boxes are the best option for autoclaving various glass items with a length from 150 to 480 mm like mixing rods, Pasteur, volumetric, and graduated pipette.

- autoclavable at 134 °C, 20 minutes
- autoclaving: the new construction guarantees the entrance of steam into the container and optimizes the process of autoclaving
- opening and closing: soft sliding performance of the top section onto the base section facilitates work
- base and top section are filled with a silicon layer at the bottom as a shock absorber to protect the glass items from splintering
- the sterilizing pipette boxes are available in 4 various lengths
- bottom: inside dimensions: 60 x 60 mm, external dimensions: 62 x 62 mm
- top: inside dimensions: 62,75 x 62,75 mm, external dimensions: 68,70 x 68,70 mm

Stainless steel holder for 4 ratiolab® pipette boxes

- for practical storage of up to 4 pipette boxes
- space-saving and safe storage of pipette boxes
- size D x W x H: 265 x 250 x 120 mm

Product	Length mm	Quantity per Pack	Order No.
Pipette box	160-200	1	3170200
Pipette box	235-305	1	3170305
Pipette box	315-385	1	3170385
Pipette box	315-485	1	3170485
Pipette box holder	-	1	3170100

Pasteur-Plast Pipettes

Pasteur-plast pipettes

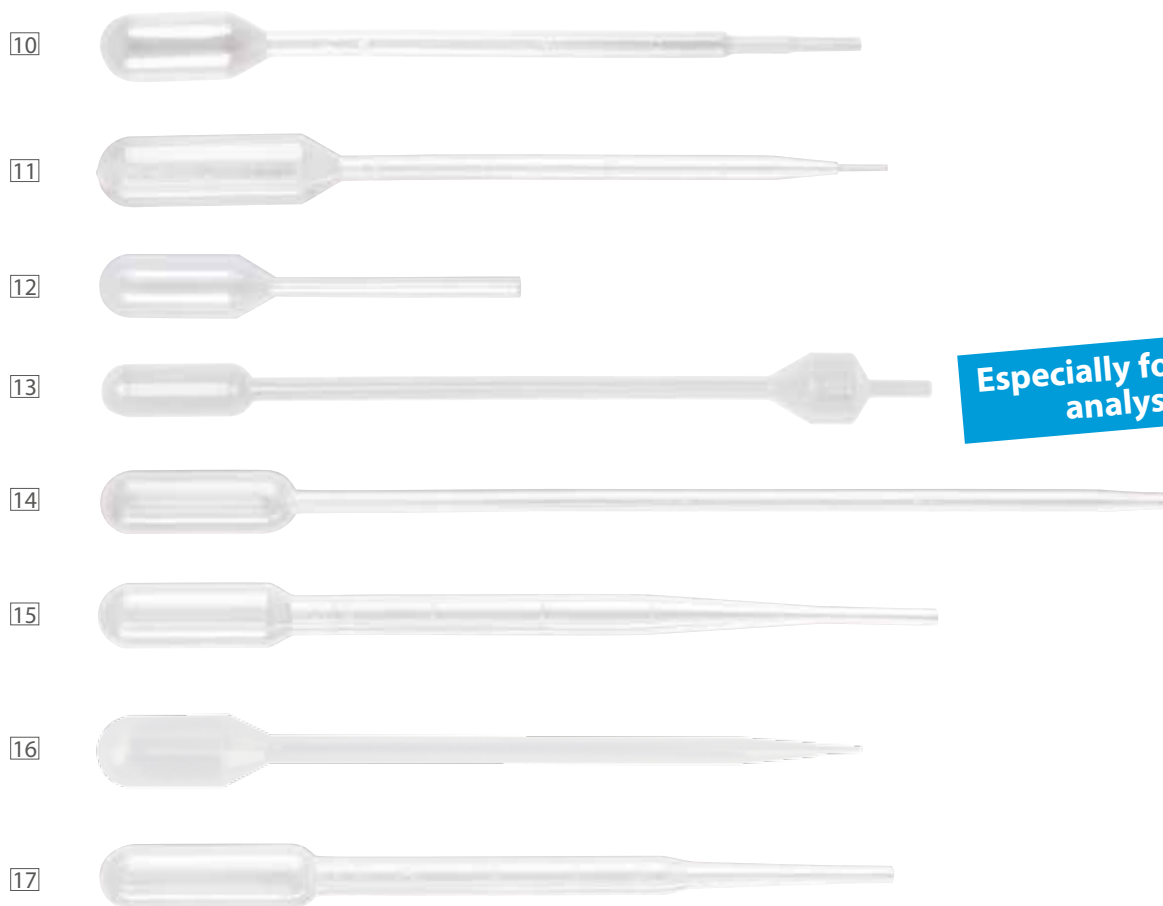
Pasteur-plast pipettes render liquid handling simple and safe. Cross-contamination and carry-over simply cannot occur making so tedious clean-ups unnecessary. In addition, there is no risk of glass breakage with the resulting danger of infectious material escaping. The Pasteur-plast pipettes are made of transparent polyethylene. They are inert to biological fluids and most acids. The low affinity of the surface reduces the loss of cells and valuable proteins through binding.

- soft, elastic bulb
- unbreakable – thus reducing the risk of glass injury
- burr-free orifice for neat, clean and precise dispensing
- only externally graduated Pasteur-plast pipettes with clearly visible embossed graduations
- sterile Pasteur-plast pipettes are gas-sterilized and individually packaged
- BSE-free
- can be used for food
- made of LD-PE
- usable up to medium temperature 70°C



Volume ml	Fig. No.	Volume without ball (ml)	Vol. with ball (ml)	Scaling/ Volume	Graduation	Length mm	Drops per ml	Sterilized	Quantity per Pack	Order No.
0.1	1	0.1	–	–	–	82	–	–	1000	2600260
0.2	2	0.25	–	–	–	130	40±4	–	500	2600145
0.25	3	0.2	0.45	–	–	125	20±2	–	1000	2600290
0.5	4	0.5	1.5	0.5	■	85	25±3	–	1000	2600125
0.8 Mini	5	0.8	2	0.5	■	112	25±3	–	1000	2600230
0.8 Mini	5	0.8	2	0.5	■	112	25±3	■	500 x 1	2655230
1.0 Mini Plus	6	0.8	1.8	–	–	114	25±3	–	1000	2600270
1.0 Micro	7	1	5	–	–	149	50±5	–	500	2600240
1.0 Micro	7	1	5	–	–	149	50±5	■	500 x 1	2655240
1.0 Kapillare	8	0.5	1.5	–	–	104	50±5	–	400	2600155
1.0	9	1.0	5.5	1	■	153	30±3	–	500	2600171
1.0	9	1.0	5.5	1	■	153	30±3	■	500 x 1	2655171
1.0	9	1.0	5.5	1	■	153	30±3	■	50 x 10	2656171

Pasteur-Plast Pipettes



Especially for urine analysis







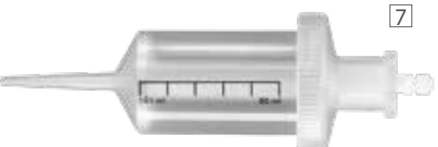

Volume ml	Fig. No.	Volume without ball (ml)	Vol. with ball (ml)	Scaling/ Volume	Graduation	Length mm	Drops per ml	Sterilized	Quantity per Pack	Order No.
1.0	10	1.0	3.5	1	■	140	25±3	–	500	2600119
1.0 Kapillare	11	1.0	5.5	1	■	150	50±5	–	500	2600181
1.0 Kapillare	11	1.0	5.5	1	■	150	50±5	■	500 x 1	2655181
1.2	12	1.2	–	–	–	63	–	–	500	2600160
1.3	13	1	–	–	–	140	25±3	–	500	2600220
1.5	14	2	6	1.5	■	228	22±2	–	400	2600120
1.5	14	2	6	1.5	■	228	22±2	■	250 x 1	2655120
2.0	15	2.0	5	2	■	152	25±3	–	500	2600135
2.0	15	2.0	5	2	■	152	25±3	■	500 x 1	2655135
2.0	15	2.0	5	2	■	152	25±3	■	50 x 10	2656135
2.5 Micro Tip	16	1.5	4	–	–	134	50±5	–	500	2600280
2.5	17	2.5	6.5	2.5	■	152	25±3	–	500	2600131
2.5	17	2.5	6.5	2.5	■	152	25±3	■	500 x 1	2655131

Pasteur-Plast Pipettes



Volume ml	Fig. No.	Volume without ball (ml)	Vol. with ball (ml)	Scaling/ Volume	Graduation	Length mm	Drops per ml	Sterilized	Quantity per Pack	Order No.
3.0	18	3	7	3	■	160	25±3	-	500	2600250
3.0 Makro	19	3.0	7	3	■	158	25±3	-	500	2600111
3.0 Makro	19	3.0	7	3	■	158	25±3	■	500 x 1	2655111
3.0 Makro	19	3.0	7	3	■	158	25±3	■	50 x 10	2656111
3.0 Mikro	20	0.1	3.7	-	-	152	30±3	-	500	2600151
3.0 Mikro	20	0.1	3.7	-	-	152	30±3	■	500 x 1	2655151
4.0	21	0.05	4.05	-	-	86	30±3	-	500	2600165
4.0	22	3	7	-	-	147	25±3	-	500	2600216
6.0 Makro	23	1.8	8.3	-	-	148	22±2	-	400	2600206
6.0 Makro	23	1.8	8.3	-	-	148	22±2	■	400 x 1	2655206
10.0	24	0.6	15	-	-	169	17±2	-	200	2600190
10.0	25	7.5	23	-	-	301	25±3	-	100	2600195

Dispenser Tips

	Volume setting				
	1	2	3	4	5
 1	1	2	3	4	5µl
 2	10	20	30	40	50µl
 3	25	50	75	100	125µl
 4	50	100	150	200	250µl
 5	0.25	0.5	0.75	1.0	1.25ml
 6	0.5	1.0	1.5	2.0	2.5ml
 7	1	2	3	4	5ml
 8					

Dispenser Tips

For serial pipettings

The volume of the Dispenser Tips is automatically identified by the pipetting device (HandyStep® electronic only). PD-Dispenser Tips fit onto ratiolab® dispetta, Brand HandyStep® and HandyStep® S and Eppendorf Multipette® 4780. Not autoclavable.

8 Adapters for 25 ml and 50 ml Dispenser Tips must be ordered separately.

Volume ml	Fig. No.	Description	Quantity per Pack	Order No.
0.5	1	non-sterile	100	2900401
1.25	2	non-sterile	100	2900402
2.5	3	non-sterile	100	2900403
5.0	4	non-sterile	100	2900404
12.5	5	non-sterile	100	2900405
25	6	non-sterile	50	2900109
50	7	non-sterile	25	2900106
Adapter	8	non-sterile	10	2900107
0.5	1	sterile, individually packed	100	2910101
1.25	2	sterile, individually packed	100	2910102
2.5	3	sterile, individually packed	100	2910103
5.0	4	sterile, individually packed	100	2910104
12.5	5	sterile, individually packed	100	2910105
25	6	sterile, individually packed	25	2910109
50	7	sterile, individually packed	25	2910106
Adapter	8	sterile, individually packed	5	2910107

Labware



Think! Development and production of customized products



Pipettes & Equipment



Liquid handling products



Labware for general lab applications



Life science products for microbiology and biotechnology



Cryo products for deep-freeze applications

Cuvettes

Cuvettes

Disposable cuvettes have long replaced cuvettes once normally made of glass. New plastics coupled with modern methods of production allow photometric measurement well into the UV range.

Ultra-precision molds with several cavities – one per cuvet – are used for producing ratiolab® Q-VETTES and ratiolab® CUVETTES under controlled room conditions. Thus, several cuvettes are produced in a single injection molding run. In order to prevent deviations in extinc-

tion coefficient values from occurring in any one run due to increased stray light, the cuvettes are automatically sorted according to their numbered cavities of origin. Each package shows the corresponding local production number of the cuvettes position in the net. So all cuvettes inside one styrofoam box are technical wise identical. Any measurement done with those identical cuvettes insures a high accuracy.



Q-VETTES

The new generation of cuvettes with clearly improved photometric properties. The optimized form and the small wall thickness of the cuvettes provides increased heat transfer resulting in more constant sample temperatures during photometric measurements.

- crystal-clear polystyrene (PS)
- applicable wavelength range 340 to 900 nm
- very low variation of extinction values
- excellent optical transmission range
- cavity-sorted production
- path length 10 mm
- outer dimensions 12.5 x 12.5 x 45 mm
- supplied in practical styrofoam racks: 100 net identical cuvettes in a styrofoam box with closable lid

Product	Material	Volume ml	Packaging	Quantity per Pack	Order No.
ratiolab® Q-VETTES semi-micro	PS	1.6	styrofoam racks 10 x 100	1000	2712120
ratiolab® Q-VETTES macro	PS	4.0	styrofoam racks 10 x 100	1000	2711110

Cuvettes



CUVETTES

For photometric measurements even in the UV range 220 nm

Due to the special plastic material and the excellent manufacturing process, the cuvettes can also be used in photometric ranges reserved for UV glass cuvettes in the past.

- applicable wavelength range 220 to 900 nm
- very low variation of extinction values
- excellent optical transmission range
- cavity-sorted production
- path length 10 mm
- outer dimensions 12.5 x 12.5 x 45 mm
- supplied in practical styrofoam racks: 100 netidentical cuvettes in a styrofoam box with a resealable cover

Product	Material	Volume ml	Packaging	Quantity per Pack	Order No.
ratiolab® CUVETTES semi-micro	UV	1.6	styrofoam rack 1 x 100	100	2722120
ratiolab® CUVETTES macro	UV	4.0	styrofoam rack 1 x 100	100	2722110



Cuvettes of PMMA

- cuvettes of polymethylmethacrylate (PMMA)
- applicable wavelength range 300 to 900 nm
- very low variation of extinction values
- excellent optical transmission range
- path length 10 mm
- outer dimensions 12.5 x 12.5 x 45 mm
- supplied in practical styrofoam racks: 100 netidentical cuvettes in a styrofoam box with a resealable cover

Product	Material	Volume ml	Packaging	Quantity per Pack	Order No.
ratiolab® semi-micro cuvettes	PMMA	1.6	styrofoam racks 10 x 100	1000	2810100
ratiolab® macro cuvettes	PMMA	4.0	styrofoam racks 10 x 100	1000	2811110

Cuvettes



Cuvettes, Solvent Resistant

- resistant against polar solvents
- applicable wavelength range 220 to 900 nm
- very low variation of extinction values
- excellent optical transmission range
- cavity-sorted production
- embossed area aside the measuring fields reduces the risks of damaging the cuvette by the cuvette holder
- path length 10 mm
- outer dimensions 12.5 x 12.5 x 45 mm
- supplied in practical styrofoam racks: 100 net identical cuvettes in a styrofoam box with a resealable cover

Product	Material	Volume ml	Packaging	Quantity per Pack	Order No.
ratiolab® semi-micro cuvettes	solvent resistant	1.6	styrofoam rack 1 x 100	100	2725120
ratiolab® macro cuvettes	solvent resistant	4.0	styrofoam rack 1 x 100	100	2725110



Stopper for Cuvettes

Polypropylene (PP).

- for all ratiolab® cuvettes
- solvent resistant

Product	Material	Color	Packaging	Quantity per Pack	Order No.
Stopper for cuvettes	PP	natural	bag 1 x 1000	1000	2812011

Multicell Cuvettes

Multicell Cuvettes of PMMA

ratiolab® 12-cavity multicell cuvettes – suitable for analysers Thermo Scientific: Arena 20, 20XT, 30 and 60.

Arena applications cover processes from food / beverage industry, biochemical and pharmaceutical tests.

Fields of analysing:

- food (milk, meat, honey)
- beverages (wine, beer, juice)
- customised applications



Product	Material	Packaging	Quantity per Pack	Order No.
12-cavity multicell cuvettes	PMMA	packs 40 x 25	1000	2812012

Analysis Beakers and Scintillation Vessels

Analysis Beakers

Clear polystyrene (PS).

• high-precision design for use with robotic analytical systems Technicon T1 / T2; Genseac G1 / Hitachi H1



Product	Fig. No.	Volume ml	Packaging	Quantity per Pack	Order No.
analysis beakers Technicon T1	1	2.0	1 x 1000	1000	5700110
analysis beakers Technicon T2	2	3.5	1 x 1000	1000	5700120
analysis beakers Genseac G1	3	0.5	1 x 1000	1000	5700200
analysis beakers Hitachi H1	4	3.0	1 x 1000	1000	5700401



Scintillation Vessels

Natural polyethylene (HD-PE).

- high-precision design for use with robotic analytical systems
- insert tubes with special leakproof cap
- convenient opening and closing

Product	Fig. No.	Volume ml	Ø x H mm	Packaging	Quantity per Pack	Order No.
scintillation bottles with cap	1	20	27 x 60	cardboard box 1 x 1000	1000	5810100
caps for scintillation bottles	-	-	-	bag 1 x 1000	1000	581010D
insert tubes with caps for scintillation bottles	2	4	14 x 53	cardboard box 2 x 1000	2000	5810110

Cell Counter Vials and Centrifuge Tubes



1



2

Cell Counter Vials

Cell counter vials made of clear polystyrene (PS).

- high-precision design for use with robotic analytical systems

Product	Fig. No.	Volume ml	Material	Packaging	Quantity per Pack	Order No.
for Coulter® and Hycel® cell counter systems						
Cell Counter Vial 1 with lid	1	25	PS	PS-tray 20 x 50	1000	5515010
Cell Counter Vial 1 with lid	1	25	PS	bags 4 x 250	1000	5515040
Cell Counter Vial 1 without lid	-	25	PS	bags 4 x 250	1000	5515041
lids for Cell Counter Vial 1	-	-	PE	bag 1 x 1000	1000	551504D
for cell counter systems with cylindrical containers, e.g. Al® and Linson®						
Cell Counter Vial 2 without lid	2	20	PS	bag 1 x 1000	1000	5515051



1



2



3

Centrifuge Tubes

Polypropylene (PP).

- conical bottom or self-standing
- available non-sterile or sterile
- the sterile centrifuge tubes are certified to be free from RNase, DNase, Endotoxin, Pyrogen and ATP
- printed graduations and frosted writing field
- with red Polyethylene (HD-PE) screw cap
- temperature withstand -80 °C to 121 °C
- centrifugable up to 11000g
- free from heavy metals

Volume ml	Fig. No.	Bottom	Sterilized	Ø x H mm	Packaging	Quantity per Pack	Order No.
15	1	conical	-	17 x 120	bags 30 x 25	750	3300005
15	1	conical	■	17 x 120	bags 30 x 25	750	3300006
50	2	conical	-	30 x 115	bags 12 x 25	300	3300001
50	2	conical	■	30 x 115	bags 12 x 25	300	3300002
50	3	self-standing	-	30 x 115	bags 10 x 25	250	3300003
50	3	self-standing	■	30 x 115	bags 10 x 25	250	3300004

Microcentrifuge Tubes

Microcentrifuge Tubes

Polypropylene (PP).

- autoclavable with opened cap at 121 °C, 20 minutes
- natural color or different colors for comfortable identification
- tight sealing cap
- safe and easy to be opened and closed
- 5615005 and 5615106: free of DNase, RNase, pyrogens, human DNA, PCR inhibitors



Volume ml	Fig. No.	Centrifugable g	Cap	Color	Quantity per Pack	Order No.
0.5	1	18.000	■	natural	1000	5615030
1.5	2	25.000	■	natural	1000	5615000
1.5	2	25.000	■	natural	1000	5615005
1.5	3	25.000	■	yellow	1000	5615001
1.5	4	25.000	■	green	1000	5615002
1.5	5	25.000	■	red	1000	5615003
1.5	6	25.000	■	blue	1000	5615004
1.5	7	25.000	-	natural	1000	5615020
2.0	8	25.000	■	natural	1000	5615101
2.0	8	25.000	■	natural	1000	5615106

Microcentrifuge Tubes

Safety-Cap Microcentrifuge Tubes

Polypropylene (PP).

The new cap sealing of test tubes ensures an extreme tightness, which is essential for applications with valuable samples, radioactive materials and DNA.

- autoclavable with opened cap at 121 °C, 20 minutes
- certified free of RNase, DNase, human DNA, PCR inhibitors, pyrogens, ATP and completely metal-free
- produced in microbiologically controlled clean room ISO 8

free of RNase, DNase, human DNA, PCR inhibitors, ATP, pyrogens and metal

- optimal tightness due to tight serration at the cap and tight channel at the tube; thereby a low evaporation is guaranteed
- secured shut due to form-closed cap lock; accidental opening of the lid during incubation is not possible
- high chemical resistance
- labeling areas on the cap and tube
- graduated for easy determination of the volume
- temperature of use: -80 °C to +121 °C



The additional safety lock prevents uncontrolled opening of the tubes.



Volume ml	Fig. No.	Centrifugable g	Sterilized	Packaging	Quantity per Pack	Order No.
0,5	1	30000	-	2 x 500	1000	5615038
0,5	1	30000	■	50 x 1	50	5615039
1,5	2	30000	-	1 x 1000	1000	5615008
1,5	2	30000	■	100 x 1	100	5615009
2,0	3	30000	-	2 x 500	1000	5615108
2,0	3	30000	■	100 x 1	100	5615109
5,0	4	21000	-	1 x 100	100	5615158
5,0	4	21000	■	50 x 1	50	5615159

free of RNase, DNase, pyrogens and PCR-Inhibitors

Microcentrifuge tubes with screw cap and O-Ring Seal

Polypropylene (PP).

- with conical bottom or additional self-standing
- sterilized
- centrifugable up to approx. 25000g
- temperature-resistant from -80 °C to +121 °C
- autoclavable up to +121 °C
- Ø x H: 13.1 x 48 mm
- resealable bags

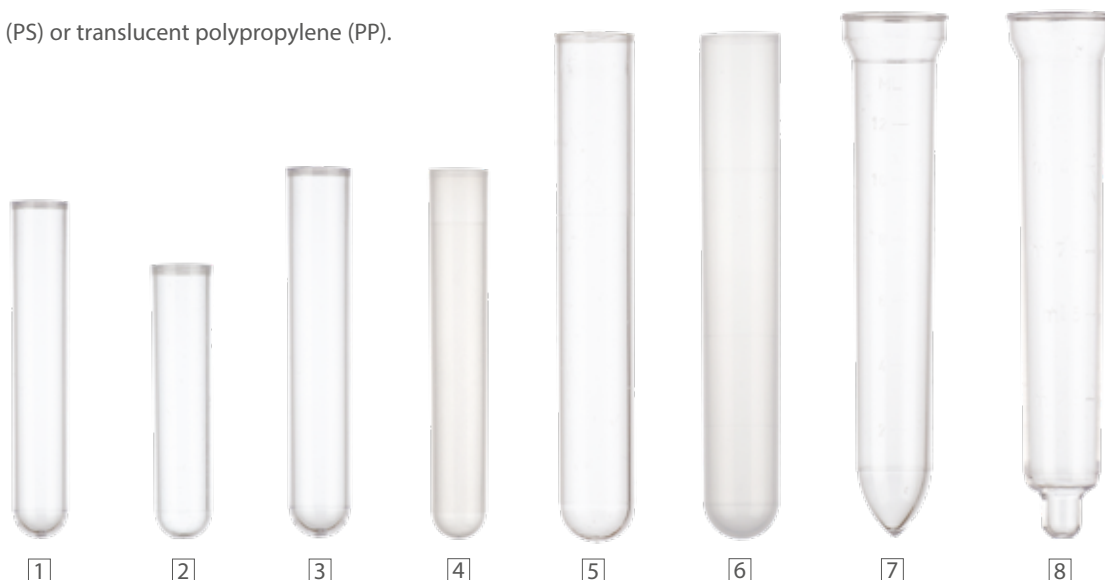


Volume ml	Fig. No.	Bottom	Labeling Area	Sterilized	Packaging	Quantity per Pack	Order No.
0.5	1	self-standing	-	■	2 x 500	1000	5616021
0.5	2	conical	-	■	2 x 500	1000	5616023
1.5	3	self-standing	■	■	2 x 500	1000	5616022
1.5	4	conical	■	■	2 x 500	1000	5616027
2.0	5	self-standing	■	■	2 x 500	1000	5616026
2.0	6	conical	■	■	2 x 500	1000	5616025

Test Tubes and Stoppers

Test Tubes

Clear polystyrene (PS) or translucent polypropylene (PP).



Product	Fig. No.	Ø x H mm	Material	Volume ml	Bottom	Packaging	Quantity per Pack	Order No.
RIA tubes	1	11 x 70	PS	4	round	bags 4 x 250	1000	3514040
coagulometer tubes	2	12 x 55	PS	4	round	bag 1 x 1000	1000	3014030
test tubes	3	12 x 75	PS	5	round	bag 1 x 1000	1000	3514030
test tubes	4	12 x 75	PP	5	round	bag 1 x 1000	1000	3514031
test tubes	3	13 x 75	PS	5.1	round	bag 1 x 1000	1000	3514032
test tubes	4	13 x 75	PP	5.1	round	bag 1 x 1000	1000	3514033
test tubes	5	16 x 100	PS	12	round	bag 1 x 1000	1000	3714010
test tubes	6	16 x 100	PP	12	round	bag 1 x 1000	1000	3814010
test tubes	7	18 x 105	PS	12	conical	bag 1 x 1500	1500	3520000
test tubes	8	18 x 105	PS	12	round	bag 1 x 1500	1500	3622000

Stoppers for test tubes, Ø 11 – 13 mm

Polyethylene (PE).

- very tight seal due to 2 sealing rings
- available in natural and 4 more colors
- fit to test tube: figure 1-4



Color	Packaging	Quantity per Pack	Order No.
natural	bag 1 x 1000	1000	3514900
blue	bag 1 x 1000	1000	351490B
green	bag 1 x 1000	1000	351490G
red	bag 1 x 1000	1000	351490R
yellow	bag 1 x 1000	1000	351490Y

Stoppers for test tubes, Ø 16 – 17 mm

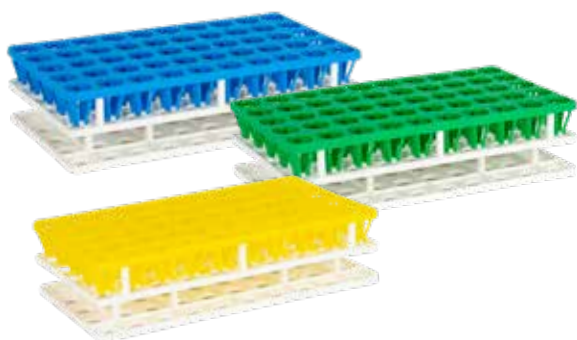
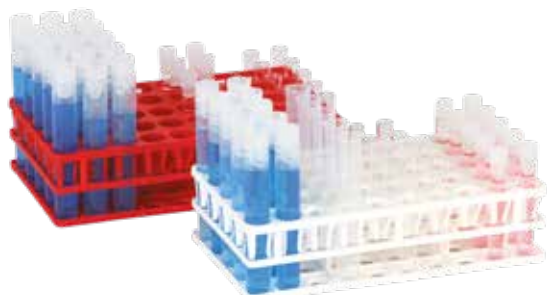
Polyethylene (PE).

- very tight seal due to 2 sealing rings
- available in natural and 4 more colors
- fit to test tube: figure 5-6



Color	Packaging	Quantity per Pack	Order No.
natural	bag 1 x 1000	1000	3914900
blue	bag 1 x 1000	1000	391490B
green	bag 1 x 1000	1000	391490G
red	bag 1 x 1000	1000	391490R
yellow	bag 1 x 1000	1000	391490Y

Multistand Plus Rack and Rack for Microcentrifuge Tubes



Multistand Plus Rack for sample tubes

Polypropylene (PP).

The multistand plus is suitable for sample tubes and you have the opportunity to store and place 50 tubes. The multistand plus has a temperature resistance up to 75 °C.

- for tubes Ø 12 to Ø 18 mm
- autoclavable
- 200 mm x 115 mm x 50 mm (LxWxH)

Color	Positions	Quantity per Pack	Order No.
red	5 x 10	1	3712301
white	5 x 10	1	3712302
white - blue	5 x 10	1	3712303
white - yellow	5 x 10	1	3712304
white - green	5 x 10	1	3712305
white - purple	5 x 10	1	3712306
white - rot	5 x 10	1	3712307

Rack for Microcentrifuge Tubes

Polypropylene (PP).

Ideal for the secure handling of reaction vessels. Space-saving on the laboratory bench due to its narrow form. Practical side grips.

- for tubes up to Ø 11 mm
- autoclavable at 121 °C
- temperature-resistant from - 80 °C to +121 °C
- 225 mm x 65 mm x 28 mm (LxWxH)



Color	For Micro Tubes	Positions	Quantity per Pack	Order No.
green	1.5 – 2.0 ml	5 x 16	5	3712006
pink	1.5 – 2.0 ml	5 x 16	5	3712008
blue	1.5 – 2.0 ml	5 x 16	5	3712005
orange	1.5 – 2.0 ml	5 x 16	5	3712007
yellow	1.5 – 2.0 ml	5 x 16	5	3712009
mix pack	1,5 – 2,0 ml	5 x 16	5	3712010

Waste Disposal Bags, Waste Disposal Bags BIOHAZARD, Autoclavable at 121 °C

Custom sizes on request,
Autoclavable at 121 °C



Waste Disposal Bags, Dispenser Box, High Transparency

Polypropylene (PP).

Bags of very strong PP-film with a broad seam at the bottom, for the disposal of contaminated labware.

- autoclavable at 121 °C, 20 min, for autoclaving, the bag must not be completely closed
- for bag size 200 x 300 mm: practical bench-top stand, plastic-coated, with 3 rubber feet
- tested according to ASTM D1238, ASTM D638 and ASTM D1709 (Dart-Drop-Test)

W x H mm	Volume approx. l	Film Thickness	Packaging	Quantity per Pack	Order No.
200 x 300	2.5	50 µm	dispenser 1 x 100	100	7001005
bench-top stand for waste disposal bags 200 x 300 mm, Height 25 cm				1	7001400
Set consisting of bench-top stand and 100 waste disposal bags (high transparency) 200 x 300 mm				1	7001405



Waste Disposal Bags, High Transparency

Polypropylene (PP).

Bags of very strong PP-film with a broad seam at the bottom, for the disposal of contaminated labware.

- autoclavable at 121 °C, 20 min, for autoclaving, the bag must not be completely closed
- tested according to ASTM D1238, ASTM D638 and ASTM D1709 (Dart-Drop-Test)

W x H mm	Volume approx. l	Film Thickness	Packaging	Quantity per Pack	Order No.
300 x 500	8	50 µm	cardboard box 1 x 500	500	7001105
400 x 780	22	50 µm	cardboard box 1 x 500	500	7001155
600 x 800	47	50 µm	cardboard box 1 x 500	500	7001205
700 x 1100	91	50 µm	cardboard box 1 x 350	350	7001305

Waste Disposal Bags BIOHAZARD red – Warning Instruction and sterilization indicator patch

Polyethylene (PE).

Distinctive red autoclavable bags for easy identification, for the disposal of contaminated labware.

- rectangle white indicator patch field turns into dark when autoclaved
- with BIOHAZARD symbol and safety imprint in English, German, French and Spanish languages
- autoclavable at 121 °C, 20 min, for autoclaving, the bag must not be completely closed
- practical bench-top stand, plastic-coated, with 3 rubber feet
- only in large bag autoclaving



W x H mm	Volume approx. l	Film Thickness	Packaging	Quantity per Pack	Order No.
210 x 290	2.5	20 µm	cardboard box 10 x 100	1000	7002110
Set consisting of bench-top stand and 100 red waste disposal bags 210 x 290 mm				1	7001410

Waste Disposal Bags BIOHAZARD, Autoclavable at 121 °C

Custom sizes on request,
Autoclavable at 121 °C



Waste Disposal Bags BIOHAZARD yellow – Warning Instruction and sterilization indicator patch

Polyethylene (HD-PE).

Autoclavable disposable waste bag of very strong PE-film for the sterilization and disposal of hazardous and contaminated labware.

- rectangle white indicator patch field turns into dark when autoclaved
- with BIOHAZARD symbol and safety imprint in German, English and French language
- autoclavable at 121 °C, 20 min, for autoclaving, the bag must not be completely closed
- tested according to ASTM D1238, ASTM D638 and ASTM D1709 (Dart-Drop-Test)

W x H mm	Volume approx. l	Film Thickness	Packaging	Quantity per Pack	Order No.
300 x 500	8	50 µm	cardboard box 1 x 500	500	7003100
400 x 780	22	50 µm	cardboard box 1 x 500	500	7003110
600 x 800	47	50 µm	cardboard box 1 x 500	500	7003120
700 x 1100	91	50 µm	cardboard box 1 x 350	350	7003130



Waste Disposal Bags, high transparency, BIOHAZARD

Polypropylene (PP).

For the sterilization and disposal of hazardous and contaminated labware.

- with blue BIOHAZARD symbol
- with white labeling field
- autoclavable at 121 °C, 20 min, for autoclaving, the bag must not be completely closed
- tested according to ASTM D1238, ASTM D638 and ASTM D1709 (Dart-Drop-Test)

W x H mm	Volume	Film Thickness	Packaging	Quantity per Pack	Order No.
300 x 650	10	40 µm	cardboard box 4 x 50	200	7002111
415 x 580	16	40 µm	cardboard box 4 x 50	200	7002112
640 x 800	52	40 µm	cardboard box 4 x 50	200	7002113

Waste Disposal Bags, Waste Disposal Bags BIOHAZARD, Autoclavable at 134°C

Custom sizes on request,
Autoclavable at 134°C



Waste Disposal Bags, Dispenser Box, Standard

Polypropylene (PP).

Bags of very strong PP-film with a broad seam at the bottom, for the disposal of contaminated labware.

- autoclavable at 134°C, 20 min, for autoclaving, the bag must not be completely closed
- for bag size 200 x 300 mm: practical bench-top stand, plastic-coated, with 3 rubber feet
- tested according to ASTM D1238, ASTM D638 and ASTM D1709 (Dart-Drop-Test)

W x H mm	Volume approx. l	Film Thickness	Packaging	Quantity per Pack	Order No.
200 x 300	2.5	50 µm	dispenser 1 x 100	100	7001000
bench-top stand for waste disposal bags 200 x 300 mm, Height 25 cm				1	7001400
Set consisting of bench-top stand and 100 waste disposal bags (standard) 200 x 300 mm				1	7001401

Waste Disposal Bags, Standard

Polypropylene (PP).

Bags of very strong PP-film with a broad seam at the bottom, for the disposal of contaminated labware.

- autoclavable at 134°C, 20 min, for autoclaving, the bag must not be completely closed
- tested according to ASTM D1238, ASTM D638 and ASTM D1709 (Dart-Drop-Test)



W x H mm	Volume approx. l	Film Thickness	Packaging	Quantity per Pack	Order No.
300 x 500	8	50 µm	cardboard box 1 x 500	500	7001100
400 x 780	22	50 µm	cardboard box 1 x 500	500	7001150
600 x 800	47	50 µm	cardboard box 1 x 500	500	7001200
600 x 800	47	50 µm	cardboard box 1 x 100	100	7001210
600 x 800	47	100 µm	cardboard box 1 x 125	125	7001212
700 x 1100	91	50 µm	cardboard box 1 x 350	350	7001300
700 x 1100	91	50 µm	cardboard box 1 x 75	75	7001310
700 x 1100	91	100 µm	cardboard box 1 x 75	75	7001311

Waste Disposal bags BIOHAZARD – Warning Instruction and sterilization indicator patch

Polypropylene (PP).

Autoclavable disposable waste bag of very strong PP-film for the sterilization and disposal of hazardous and contaminated labware.

- rectangle white indicator patch field turns into dark when autoclaved
- with BIOHAZARD symbol and safety imprint in English, German, French and Spanish language
- autoclavable at 134°C, 20 min, for autoclaving, the bag must not be completely closed
- tested according to ASTM D1238, ASTM D638 and ASTM D1709 (Dart-Drop-Test)



W x H mm	Volume approx. l	Film Thickness	Packaging	Quantity per Pack	Order No.
300 x 500	8	50 µm	cardboard box 1 x 100	100	7002105
300 x 500	8	50 µm	cardboard box 1 x 500	500	7002100
400 x 780	22	50 µm	cardboard box 1 x 100	100	7002155
400 x 780	22	50 µm	cardboard box 1 x 500	500	7002150
600 x 800	47	50 µm	cardboard box 1 x 100	100	7002205
600 x 800	47	50 µm	cardboard box 1 x 500	500	7002200
700 x 1100	91	50 µm	cardboard box 1 x 75	75	7002305
700 x 1100	91	50 µm	cardboard box 1 x 350	350	7002300

Waste Disposal Bags BIOHAZARD, Autoclavable at 134°C

Custom sizes on request,
Autoclavable at 134°C



Waste Disposal Bags BIOHAZARD red – Warning Instruction and sterilization indicator patch

Polypropylene (PP).

Distinctive red autoclavable bags for easy identification, for the disposal of contaminated labware.

- rectangle white indicator patch field turns into dark when autoclaved
- with BIOHAZARD symbol and safety imprint in German, English and French language
- autoclavable at 134°C, 20 min, for autoclaving, the bag must not be completely closed
- tested according to ASTM D1238, ASTM D638 and ASTM D1709 (Dart-Drop-Test)

W x H mm	Volume approx. l	Film Thickness	Packaging	Quantity per Pack	Order No.
300 x 500	8	50 µm	cardboard box 1 x 500	500	7003200
400 x 780	22	50 µm	cardboard box 1 x 500	500	7003210
600 x 800	47	50 µm	cardboard box 1 x 500	500	7003220
600 x 800	47	50 µm	cardboard box 1 x 100	100	7003225
700 x 1100	91	50 µm	cardboard box 1 x 350	350	7003230
700 x 1100	91	50 µm	cardboard box 1 x 75	75	7003235

Waste Disposal Bags BIOHAZARD yellow – Warning Instruction and sterilization indicator patch

Polypropylene (PP).

Autoclavable disposable waste bag of very strong PP-film for the sterilization and disposal of hazardous and contaminated labware.

- rectangle white indicator patch field turns into dark when autoclaved
- with BIOHAZARD symbol and safety imprint in German, English and French language
- autoclavable at 134°C, 20 min, for autoclaving, the bag must not be completely closed
- tested according to ASTM D1238, ASTM D638 and ASTM D1709 (Dart-Drop-Test)



W x H mm	Volume approx. l	Film Thickness	Packaging	Quantity per Pack	Order No.
300 x 500	8	50 µm	cardboard box 1 x 500	500	7003300
400 x 780	22	50 µm	cardboard box 1 x 500	500	7003310
600 x 800	47	50 µm	cardboard box 1 x 500	500	7003320
600 x 800	47	50 µm	cardboard box 1 x 100	100	7003325
700 x 1100	91	50 µm	cardboard box 1 x 350	350	7003330
700 x 1100	91	50 µm	cardboard box 1 x 75	75	7003335

Bench-top Stand, Transport bag BIOHAZARD and Cleanibag System

Bench-top stand for waste disposal bags

Practical bench-top stand, plastic-coated, with 3 rubber feet.
 • for bag size 200 x 300 mm and 300 x 500 mm



Product	Bild-Nr.	Quantity per Pack	Order No.
Bench-top stand for waste disposal bags 200 x 300 mm, Height 25 cm	2	1	7001400
Set consisting of bench-top stand and 100 waste disposal bags (standard) 200 x 300 mm	3	1	7001401
Set consisting of bench-top stand and 100 waste disposal bags (high transparency) 200 x 300 mm	3	1	7001405
Bench-top stand for waste disposal bags 300 x 500 mm, Height 35 cm	1	1	7001430
Set consisting of bench-top stand and 100 waste disposal bags (standard) 300 x 500 mm	3	1	7001415
Set consisting of bench-top stand and 100 waste disposal bags (high transparency) 300 x 500 mm	3	1	7001420
Set consisting of bench-top stand and 100 red waste disposal bags 210 x 290 mm	4	1	7001410
Bench top stand with tilt base, for waste disposal bags 200 x 300 mm	5	1	7001440
Design table stand made of stainless steel autoclavable, for waste disposal bags 200 x 300 mm	6	1	7001450



Transport bags BIOHAZARD

Polyethylene (LD-PE).

- transparent with fast-zip closure for reclosing and with a separate external pouch for documentation
- suitable for sample transport

W x H mm	Film Thickness	Packaging	Quantity per Pack	Order No.
155 x 250 / 210	50 µm	cardboard box 1 x 100	100	7000300
230 x 305 / 250	50 µm	cardboard box 1 x 100	100	7000310



Cleanibag System

All-purpose PE bags with self-adhesive strip for clinical and laboratory use.

- self-adhesive strip, sticks on smooth and clean surfaces
- residue-free on removable

Other sizes available on request.

W x H mm	Volume approx. l	Packaging	Quantity per Pack	Order No.
200 x 300	2.5	cardboard box 1 x 1000	1000	7000250
300 x 300	4.5	cardboard box 1 x 1000	1000	7000260
300 x 450	8	cardboard box 1 x 1000	1000	7000270

Self-adhesive

Petri Dishes and Inoculating Loops



Petri Dishes

Transparent polystyrene (PS).

- uncoated, with vents
- sterilized or clean as produced

Ø*x H mm	Description	Packaging	Quantity per Pack	Order No.
60 x 14	with vents	25 x 20	500	9050006
60 x 14	sterilized, with vents	25 x 20	500	9050106
90 x 15	with vents	25 x 20	500	9050000
90 x 15	sterilized, with vents	25 x 20	500	9050100
147 x 18	with vents	11 x 20	220	9050004
147 x 18	sterilized, with vents	11 x 20	220	9050104
65 x 14	with triple vents with compartments	25 x 20	500	9050005
65 x 14	sterilized, with triple vents with compartments	25 x 20	500	9050105

*external diameter



Petri Dishes

Transparent polystyrene (PS).

The ventilated plates have 8 vents, 4 of which are functional for the passage of air and 4 additional to guarantee maximum stability of the lid.

Improvements have been adopted to guarantee maximum stability of the dishes once stacked, these include:

- increased plastic thickness for greater resistance to deformation under thermal and mechanical stress
- 4 vents that help center the plate and lid
- oversized rings on the edge of the lid and on the bottom of the plate to further improve its stability
- sterilized or clean as produced



Ø x H mm	Description	Packaging	Quantity per Pack	Order No.
90 x 14	with vents	25 x 24	600	9050003
90 x 14	sterilized, with vents	25 x 24	600	9050103

New
New

Inoculating Loops

Made of polystyrene (PS).

- hexagonal handle for safe handling
- beta-sterile
- sterile, individually packed in easy to open peel-packs



Product	Packaging	Quantity per Pack	Order No.
1 µl inoculating loops	100 peel-packs of 20	2000	7020100
10 µl inoculating loops	100 peel-packs of 20	2000	7020200

Multi Purpose Beakers and Multi Purpose Bottles

Multi Purpose beakers with screw-caps

Polypropylene (PP).

For sampling, transport and storage of solid, pasty and liquid samples.

- with red screw-cap
- supplied in non-sterile or sterile, individually packed



Volume ml	Fig. No.	Material	Graduation and Labeling area	Sterilized	Height with cap, mm	Ø cap, outer, mm	Packaging	Quantity per Pack	Order No.
30	1	PP	–	–	47	43	cardboard box 1 x 1000	1000	5921173
30	1	PP	–	■	47	43	bags 500 x 1	500	5921174
30	2	PP	■	–	82	34	cardboard box 1 x 700	700	5921177
30	2	PP	■	■	82	34	bags 500 x 1	500	5921178
60	3	PP	■	–	66	43	cardboard box 1 x 600	600	5921175
60	3	PP	■	■	66	43	bags 500 x 1	500	5921176
120	4	PP	■	–	73	63	cardboard box 1 x 500	500	5921182
120	4	PP	■	■	73	63	bags 250 x 1	250	5921183
200	5	PP	–	–	80	64	cardboard box 1 x 200	200	5921185
200	5	PP	–	■	80	64	bags 150 x 1	150	5921184
200	6	PS	–	■	82	64	bags 150 x 1	150	5921188



Multi Purpose bottles

Polyethylene, blue translucent (PE).

- inclusive lid with nonwoven fabric liner
- with graduations, light protection
- wide neck diameter 80 mm
- volume: 2.5 l

Product	Packaging	Quantity per Pack	Order No.
Multi purpose bottle 2.5 l with self-adhesive labels	cardboard box 1 x 60	60	5922250

Ear Tips and Ear Funnels



Ear Tips, Ear Funnels



Hygienic and safe disposable products. Once attached, they remain fixed on most commonly used otoscopes. Ergonomic and smoothly formed. No sharp edges.

Ear Tips

Made of high-quality polystyrene (PS).

- for Heine K180*, Mini 3000*, Beta 200*, KaWe Piccolight C*, Riester ri-mini* otoscopes
- high precision
- the hygienic disposable alternative



Ø mm	Color	Packaging	Quantity per Pack	Order No.
2.5	black	bags 20 x 50	1000	1020340
2.5	black	bags 2 x 500	1000	1020350
2.5	black	bag 1 x 1000	1000	1020330
2.5	grey	bags 20 x 50	1000	1020250
2.5	grey	bags 2 x 500	1000	1020260
2.5	grey	bag 1 x 1000	1000	1020230
4.0	black	bags 20 x 50	1000	1020341
4.0	black	bags 2 x 500	1000	1020351
4.0	black	bag 1 x 1000	1000	1020331
4.0	grey	bags 20 x 50	1000	1020251
4.0	grey	bags 2 x 500	1000	1020261
4.0	grey	bag 1 x 1000	1000	1020231

Ear Funnels

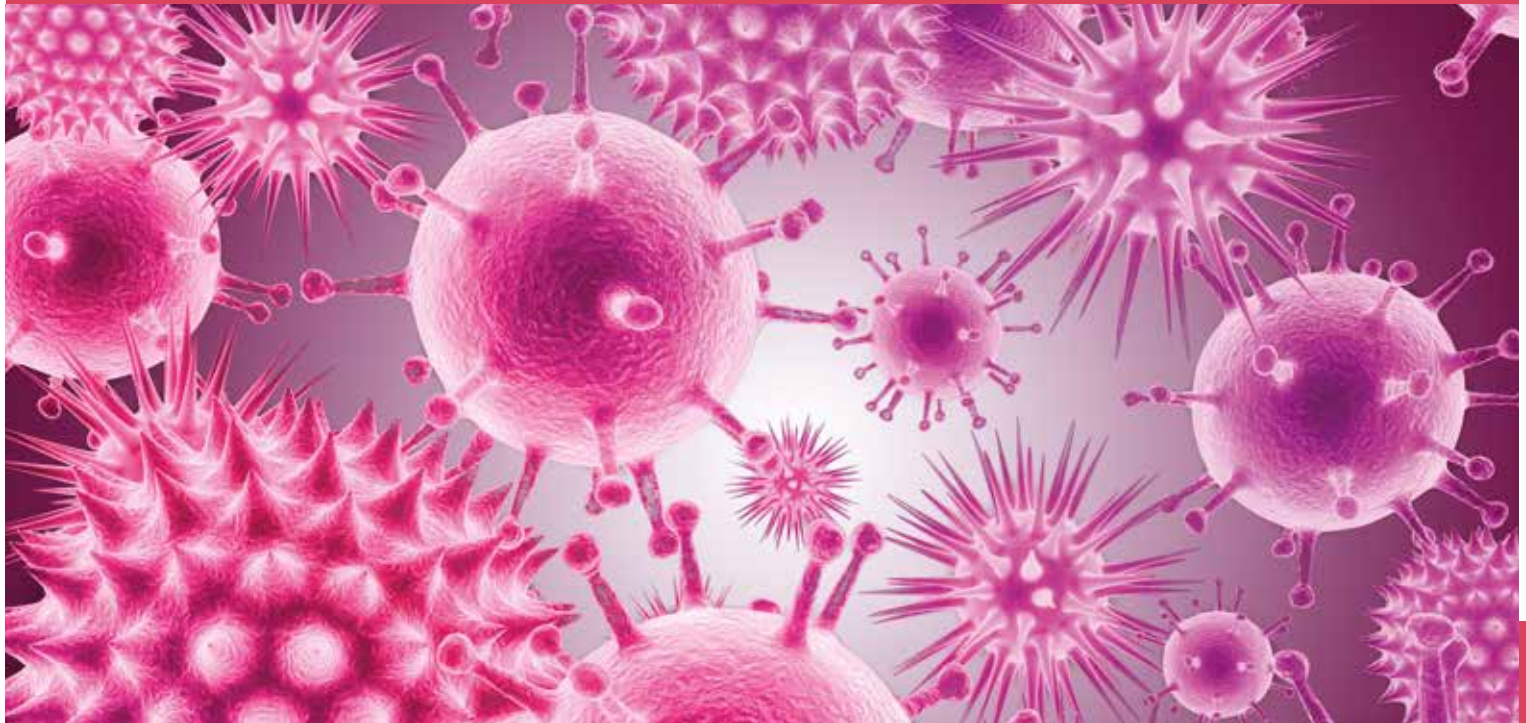
Made of high-quality polystyrene (PS).

- for Heine Beta 100* otoscopes
- high precision
- the hygienic disposable alternative

Ø mm	Color	Packaging	Quantity per Pack	Order No.
2.5	black	bag 1 x 1000	1000	1020240
2.5	black	bags 2 x 500	1000	1020243
2.5	black	bags 20 x 50	1000	1020540
4.0	black	bag 1 x 1000	1000	1020241
4.0	black	bags 2 x 500	1000	1020242
4.0	black	bags 20 x 50	1000	1020541

*registered trade mark

Life Science



Think! Development and production of customized products



Pipettes & Equipment



Liquid handling products



Labware for general lab applications



Life science products for microbiology and biotechnology



Cryo products for deep-freeze applications

Micro Test Plates

96-Well Micro Test Plates, volume approx. 300 µl

Clear polystyrene (PS) or translucent polypropylene (PP).

- with U-, F-, or V-bottom
- SBS standard micro test plate format
- 8 x 12 wells alphanumerically coded
- wells with raised rims for reduced cross-contamination and effective sealing with ratiolab® cover films (see on pages 76-77)

Individual Plates upon request

- precise design, perfectly shaped for use with automatic systems
- optimum space for precise positioning
- space-saving and stackable
- polypropylene plates may be sealed with heat-sealing films without deformation



1



2



3



Volume approx. 300 µl

Bottom	Fig. No.	Material	Sterilized	Packaging	Quantity per Pack	Order No.
U	1	PS	–	bags 10 x 10	100	6018111
U	1	PS	■	individually in bags 100 x 1	100	6018113
U	2	PP	–	bags 10 x 10	100	6018121
U	2	PP	■	individually in bags 100 x 1	100	6018123
F	1	PS	–	bags 10 x 10	100	6018211
F	1	PS	■	individually in bags 100 x 1	100	6018213
F	2	PP	–	bags 10 x 10	100	6018221
F	2	PP	■	individually in bags 100 x 1	100	6018223
V	1	PS	–	bags 10 x 10	100	6018311
V	1	PS	■	individually in bags 100 x 1	100	6018313
V	2	PP	–	bags 10 x 10	100	6018321
V	2	PP	■	individually in bags 100 x 1	100	6018323

Volume approx. 400 µl

Bottom	Fig. No.	Material	Sterilized	Color	Packaging	Quantity per Pack	Order No.
U	3	PP	–	white	bags 10 x 10	100	6018810
U	2	PP	–	transparent	bags 10 x 10	100	6018812
U	2	PP	■	transparent	individually in bags 100 x 1	100	6018813
U	3	PS	–	white	bags 10 x 10	100	6018820
U	1	PS	–	transparent	bags 10 x 10	100	6018822
U	1	PS	■	transparent	individually in bags 100 x 1	100	6018823



Micro Test Plates, Spot Test Plates



96-Well Micro Test Plates, volume approx. 300 µl

Polypropylene (PP) or polystyrene (PS).

Micro test plates for luminescence, fluorescence and absorption applications.

- with U-bottom or F-bottom
- SBS standard micro test plate format
- 8 x 12 wells alphanumerically coded
- wells with raised rims for reduced cross-contamination and effective sealing with ratiolab® cover films (see on pages 76-77)
- precise design, perfectly shaped for use with automatic systems
- optimum space for bar code labels on the side walls
- space-saving and stackable
- surface untreated

Bottom	Material	Color	Packaging	Quantity per Pack	Order No.
U	PP	black	bags 10 x 10	100	6018710
U	PS	black	bags 10 x 10	100	6018711
U	PP	white	bags 10 x 10	100	6018712
U	PS	white	bags 10 x 10	100	6018713
F	PP	black	bags 10 x 10	100	6018717
F	PS	black	bags 10 x 10	100	6018718
F	PP	white	bags 10 x 10	100	6018719
F	PS	white	bags 10 x 10	100	6018720

Lids for Micro Test Plates

Optional in highly transparent polystyrene (PS) or polypropylene (PP).

Material	Sterilized	Packaging	Quantity per Pack	Order No.
PS	–	bags 10 x 10	100	6018402
PS	■	individually in bags 100 x 1	100	6018401
PP	–	bags 10 x 10	100	6018422
PP	■	individually in bags 100 x 1	100	6018421

Spot Test Plates

Polystyrene (PS), white.

- 3 x 4 wells
- L x W x H: 135 x 109 x 10 mm

Ø Mould mm	Packaging	Quantity per Pack	Order No.
20	bag 1 x 100	100	6018060

Low-Profile Deep-Well-Plate

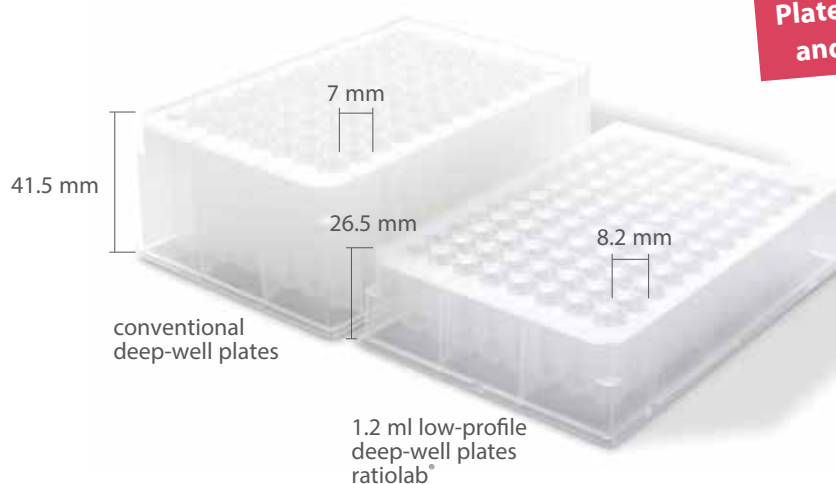
Low-Profile Deep-Well Plate (96)

Clear polypropylene (PP).

These 1.2 ml low-profile deep-well plates are ideal for pharmaceuticals, biotechnology and diagnostics. Of the same standard dimensions (Society for Biomolecular Sciences – SBS), they are one-third lower than standard deep well plates (96). They thus require less space! Requiring some 30% less space, they help to optimize warehouse space, hence lowering costs – especially for costly cryo-storage applications.

The cavities are some 20% larger than conventional plates. Thus, when used with robots, they provide additional security. The chimney form of the wells reliably prevents cross-contamination. Their precise, true-to-size form makes them highly suitable for High-Throughput-Screening (HTS).

- about half as high as conventional deep-well plates at 1.2 ml fill volume
- SBS standard micro test plate form
- well with significantly larger cross section
- wells with raised rims for reduced cross-contamination
- improved visual control due to clear polypropylene
- autoclavable at 121 °C, 20 minutes
- temperature resistant to – 80 °C
- 8 x 12 wells with alphanumeric code in micro test plate format
- optimally sealing with ratiolab® cover films (see on pages 76-77)
- precise design, for use in automatic pipetting systems for High-Throughput-Screening (HTS)
- optimum space for bar code labels on the side walls
- space-saving and stackable



Volume per Well ml	Well	Bottom	Packaging	Quantity per Pack	Order No.
1,2 Low-Profile	96	U	bags 10 x 5	50	8101012

Deep-Well-Plates

Deep-Well Plates

Translucent polypropylene (PP), surface with very low protein binding.

The chimney form of the wells reliably prevents cross-contamination. Their precise, true-to size form makes them highly suitable for High-Throughput-Screening (HTS).

- SBS standard micro test plate format
- well with significantly larger cross section
- wells with raised rims for reduced cross-contamination

- autoclavable at 121 °C, 20 minutes
- temperature resistant to – 80 °C
- alphanumeric well coding
- optimally sealing with ratiolab® cover films (see on pages 76-77)
- precise design, for use in automatic pipetting systems for High-Throughput-Screening (HTS)
- optimum space for bar code labels on the side walls
- space-saving and stackable



1



2



3



4

Volume per Well ml	Fig No.	Well	Bottom	Packaging	Quantity per Pack	Order No.
0.3	1	384	V	bags 8 x 6	48	6020320
1.0	2	96	U	bags 10 x 9	90	6020110
1.2	3	96	U	bags 1 x 32	32	6020121
2.2	4	96	V	bags 10 x 5	50	6020221

New

New

Closures for Deep-Well-Plates



Closures for 96-Well Deep-Well-Plates Low-Profile, 1.2 ml

Made of thermo-plastic elastomer (TPE).

- suitable for 8101012
- autoclavable at 121 °C, 20 minutes

Product	Fig. No.	Material	Packaging	Quantity per Pack	Order No.
96-well-cover mats	1	TPE	cardboard box 10 x 10	100	8101101

Closures for 96-Well Deep-Well-Plates

Made of thermo-plastic elastomer (TPE) or ethylene vinyl acetate (EVA).

- closures 8200008 and 8200009 suitable for deep-well-plate 6020121
- closures 8200010 suitable for deep-well-plate 6020221

Product	Fig. No.	Material	Packaging	Quantity per Pack	Order No.
1.2 ml 8-well-cover strips	2	TPE	bag 1 x 1000	1000	8200008
1.2 ml 96-well-cover mats	3	TPE	bags 10 x 10	100	8200009
2.2 ml 96-well-cover mats*	4	EVA	bags 5 x 20	100	8200010

*for 96-square well plates

PCR Tubes



PCR Tubes

Pure polypropylene (PP).

- rapid and homogeneous heat transfer due to consistently ultrathin wall design
- perfect fit, compatible with all major brands of thermocyclers due to precise production
- free of DNase, RNase and DNA
- variety of tight closures available to reduce sample evaporation
- suitable for Real-Time-PCR

PCR Tubes, single

- volume 0.2 or 0.5 ml
- with attached domed or flat cap
- caps designed for tight sealing, easy open and close

Volume ml	Fig. No.	Cap	Packaging	Quantity per Pack	Order No.
0.2	1	flat	1 x 1000	1000	8610006
0.2	2	domed	1 x 1000	1000	8610001
0.5	3	flat	1 x 1000	1000	8610007

PCR Strips of 8 Tubes

- volume 0.2 ml
- with attached domed or flat cap, for use with detached 8-cap strips
- caps designed for tight sealing, easy opening and close

Volume ml	Fig. No.	Caps	Packaging	Quantity per Pack	Order No.
with attached individual caps					
8 x 0.2	4	flat	7 x 18	126	8610040
8 x 0.2	5	domed	1 x 120	120	8610039
for separate cap strips					
8 x 0.2	6	without	1 x 250	250	8610002
cap strips					
8-cap-strips	7	flat	1 x 126	126	8610015
8-cap-strips	8	domed	1 x 126	126	8610003

PCR Plates

PCR Plates

The plates conform to the highest requirements of PCR (Polymerase Chain Reaction). They are made of polypropylene and are characterized by their very thin but uniform walls. In this way, optimal heat transfer in short cycle times is achieved. The smooth inside walls of the cavities minimize the binding of enzymes and nucleic acids.

The plates are free of DNA, DNase and RNase. They are available opti-

onally without or with edges (the latter to minimize cross-contamination).

- working volumes of 0.1 ml, 0.2 ml and 0.04 ml
- alphanumeric coding for optimal sample identification
- available in eight versions for various PCR systems
- suitable for Real-Time-PCR
- the PCR plate 8610014 is up to 4000g centrifugable



Volume ml	Fig. No.	Description	Packaging	Quantity per Pack	Order No.
96 x 0.2	1	with rim, High Profile	bags 5 x 10	50	8610011
96 x 0.2	2	semi-skirted, Straight Side	bags 5 x 10	50	8610012
96 x 0.1	3	semi-skirted, FAST Type Low Profile	bags 5 x 10	50	8610013
96 x 0.2	4	without rim, Low Profile	bags 5 x 10	50	8610014
96 x 0.2	5	semi-skirted, ABI-Type Raised Rim	bags 5 x 10	50	8610016
96 x 0.1	6	semi-skirted, Light Cycler Type Low Profile	bags 5 x 10	50	8610017
384 x 0.04	7	fully skirted	bags 5 x 10	50	8610020
384 x 0.04	8	fully skirted	bags 5 x 10	50	8610021

New
New

PCR Racks



96-Well PCR-Rack

Polypropylene (PP).

Work and storage rack for 0.2 ml PCR tubes, PCR strips, and PCR segments.

- 8 x 12 positions, micro test plate format
- autoclavable
- available in five colors for the convenient identification of different types of samples
- transparent lids available in two different heights

Product	Material	Quantity per Pack	Order No.
PCR-Rack white	PP	10	6114100
PCR-Rack yellow	PP	10	6114101
PCR-Rack green	PP	10	6114103
PCR-Rack red	PP	10	6114104
PCR-Rack blue	PP	10	6114102
PCR-Rack mix pack of 2x5 color	PP	10	6114105
lid for PCR-Racks, 14 mm high	PP	10	6114110
lid for PCR-Racks, 28 mm high	SAN*	10	6114111

*Styrol-Acrylnitril

Floating Cryo Racks

Ideal for the thawing out or cooling of samples in PCR tubes and PCR strips. The loaded racks remain floating.

The tubes fit firmly in the racks and keep them well positioned in the bath.



Product	W x D mm	Quantity per Pack	Order No.
Floating Cryo Racks for 10 PCR tubes	Ø 70	10	6114200
Floating Cryo Racks for 4 PCR strips of 8 tubes	80 x 80	10	6114201

Micro-Tube System

Micro-Tube System

Highly practical system for processing small volumes. The reusable Micro-Rack is the work station and takes 96 micro-tubes in the standard 8 x 12 SBS microplate format. It is a stable and robust system and has a dust-tight lid. A sloping edge helps the positioning of the refill unit. The side edges can be labeled with a barcode. The rack is excellently suited to use in automatic dosing and robotic systems.

The 0.65 and 1.2 ml micro-tubes can be supplied as single, strips of 8 or in 96-well format as a refill system for 8 x 12 plates.

The tubes are closable either with an 8-lid strip or an 8 x 12 closure mat.

- the Micro-Tubes are autoclavable at 121 °C for 20 minutes
- temperature-resistant to – 80 °C



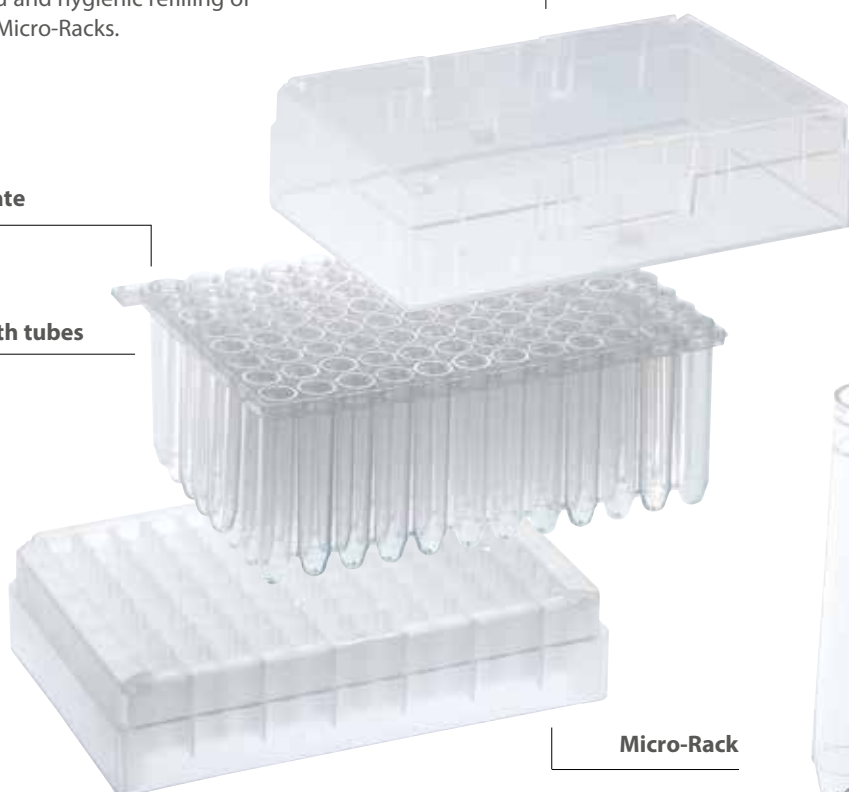
The refill system ensures easy, rapid and hygienic refilling of the Micro-Racks.

Lid

Plate

with tubes

The tubes can be removed singly and are numbered on the bottom.



Micro-Rack



Micro-Tubes 1.2 ml

Micro-Tube System



Micro-Tubes

Translucent polypropylene (PP) with very low protein binding.

- available as individual Micro-Tubes or Micro-Tube-Strips of 8 tubes for use with Micro-Racks
- volume 0.65 or 1.2 ml with round bottom

Product	Volume ml	Bottom	Packaging	Quantity per Pack	Order No.
ratiolab® Micro-Tubes, individual	0.65	round	bags 5 x 1000	5000	8200021
ratiolab® Micro-Tubes, individual	1.2	round	bags 5 x 1000	5000	8200001
ratiolab® Micro-Tube-Strips of 8 tubes	0.65	round	bags 5 x 120	600	8200022
ratiolab® Micro-Tube-Strips of 8 tubes	1.2	round	bags 5 x 120	600	8200002



Micro-Racks, loaded or empty

Micro-Racks, tray and lid of translucent polypropylene (PP).

- available as empty racks or equipped with coded or non-coded Micro-Tubes
- pressure-tested tightness of the Micro-Tubes
- stackable, for the use with stacker instruments

Product	Volume ml	Bottom	Packaging	Quantity per Pack	Order No.
ratiolab® Micro-Racks, loaded, non-coded	0.65	round	50 Micro-Racks of 96 Micro-Tubes	50	8200023
ratiolab® Micro-Racks, loaded, coded	0.65	round	50 Micro-Racks of 96 Micro-Tubes	50	8200024
ratiolab® Micro-Racks, empty	0.65	–	50 Micro-Racks for 96 Micro-Tubes	50	8200027
ratiolab® Micro-Racks, loaded, non-coded	1.2	round	50 Micro-Racks of 96 Micro-Tubes	50	8200003
ratiolab® Micro-Racks, loaded, coded	1.2	round	50 Micro-Racks of 96 Micro-Tubes	50	8200004
ratiolab® Micro-Racks, empty	1.2	–	50 Micro-Racks for 96 Micro-Tubes	50	8200007



Micro-Tube Refill-System for Micro-Racks

The Micro-Tubes are placed on an 8 x 12 tray and packed in an environmentally friendly cardboard box. The loaded tray can easily be moved from the cardboard box into the empty Micro-Rack.

- available with coded or non-coded Micro-Tubes
- for the very efficient, hygienic, and fast loading of Micro-Racks
- convenient handling and reduced waste
- pressure-tested tightness of the Micro-Tubes

Product	Volume ml	Bottom	Packaging	Quantity per Pack	Order No.
Micro-Tube Refill-System for Micro-Racks					
ratiolab® Refill with 96 Micro-Tubes, non-coded	0.65	round	50 Refills of 96 Micro-Tubes	50	8200025
ratiolab® Refill with 96 Micro-Tubes, coded	0.65	round	50 Refills of 96 Micro-Tubes	50	8200026
ratiolab® Refill with 96 Micro-Tubes, non-coded	1.2	round	50 Refills of 96 Micro-Tubes	50	8200005
ratiolab® Refill with 96 Micro-Tubes, coded	1.2	round	50 Refills of 96 Micro-Tubes	50	8200006
Closures for ratiolab® Micro-Tubes					
8-cap-Strips			bag 1 x 1000	1000	8200008
8 x 12 cover mats			bag 10 x 10	100	8200009

Further cover films: see pages 76-77.

Cover Films

Cover Films

For micro test plates, deep-well plates, micro test tubes and PCR plates

Adhesive base must be free of grease, dust, degassing and air-conditioned in order to ensure safe bonding.

- self-adhesive
- for manual operation
- adhesive with high solvent resistance
- all films of SBS standard format



1

Soft-PVC peeling cover film

- self-adhesive with one or two tabs
- low-cost film for polystyrene plates
- can be removed without any residues
- minimum application temperature: + 5 °C
- temperature resistant from – 20 °C to + 70 °C
- store in dry rooms at room temperature



2

Piercing-foil with cavity circle 96-well

- each cavity is marked by a circle and a numerical printing
- prepierced in each cavity optimizes opening by tip
- self-closing film reduces the risk of cross-contamination
- also for use with micro-racks and critical PCR plates
- temperature resistant from – 80 °C to + 30 °C
- DMSO-resistant



3

Gas permeable peeling film

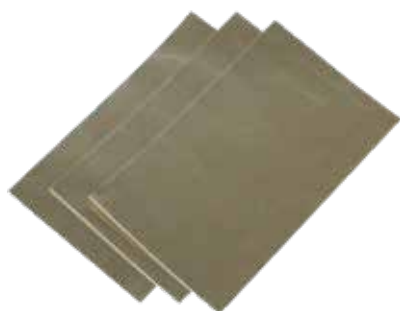
- liquid tight
- high permeability
- temperature resistant from – 5 °C to + 60 °C
- store in dry rooms at room temperature (approx. 20°C-23°C)

Polypropylene peeling cover film

- suitable for Real-Time-PCR
- self-adhesive with one or two tabs
- can be removed without any residues and repeatedly used
- for all plate types; PS, PP, PC, PE, DMSO-resistant
- temperature resistant from – 80 °C to + 120 °C
- store in dry rooms at room temperature (approx. 20°C-23°C)

Product	Fig No.	Material	Packaging	Quantity per Pack	Order No.
Soft-PVC peeling cover film	1	PVC	pack 1 x 100	100	6018610
Piercing-foil with cavity circle 96-well	2	PP	pack 1 x 100	100	6018619
Gas permeable peeling film	3	PP	pack 1 x 50	50	6018618
Polypropylene peeling cover film	-	PP	pack 1 x 100	100	6018612
Polypropylene peeling cover film with 2 fixing bracket/tearing slices	-	PP	pack 1 x 100	100	6018620

Cover Films



4

Aluminium universal cover film, 30 µm

- material thickness: 30 µm
- can be easily removed
- ideal for piercing
- for all plate types; PS, PP, PC, PE
- temperature resistant from – 80°C to + 120°C
- store in dry rooms at room temperature (approx. 20°C-23°C)



5

Aluminium universal cover film, 60 µm

- material thickness: 60 µm
- with tear-off tab
- good pierceability
- for all plate types; PS, PP, PC, PE
- temperature resistant from – 80°C to + 120°C
- store in dry rooms at room temperature (approx. 20°C-23°C)



6

Aluminium Gold cover film

- with tear-off tab
- self-adhesive with high adhesive strength
- high solvent resistance
- not pierceable
- for manual use
- temperature resistant from – 80°C to + 120°C



7

Heat Sealing film, Aluminium, 30 µm

- material thickness: 30 µm
- good pierceability
- the numbers A1 indicate the top side of the foil
- sealing parameters: 160 – 180°C, 2-3 seconds
- temperature resistant from – 80°C to + 120°C
- DMSO-resistant
- for plate types: PS, PP

Heat Sealing film, Aluminium, 50 µm

- material thickness: 50 µm
- good pierceability
- the numbers A1 indicate the top side of the foil
- sealing parameters: 160 – 180°C, 2-3 seconds
- temperature resistant from – 20°C to + 140°C
- DMSO-resistant
- for plate types: PS, PP

Heat Sealing film, Polyester, 50 µm

- material thickness: 50 µm
- optically clear, peelable
- the numbers A1 indicate the top side of the foil
- sealing parameters: 160 – 185°C, 2-3 seconds
- temperature resistant from – 80°C to + 140°C

Product	Fig No.	Material	Packaging	Quantity per Pack	Order No.
Aluminium universal cover film, 30 µm	4	AL	pack 1 x 100	100	6018611
Aluminium universal cover film, 60 µm	4	AL	pack 1 x 100	100	6018621
Aluminium Gold cover film	5	AL	pack 1 x 100	100	6018622
Heat Sealing film, Aluminium, 30 µm	6	AL	pack 1 x 100	100	6018630
Heat Sealing film, Aluminium, 50 µm	6	AL	pack 1 x 100	100	6018631
Heat Sealing film, Polyester, 50 µm	7	PET	pack 1 x 100	100	6018632



Cryo



Think! Development and production of customized products



Pipettes & Equipment



Liquid handling products



Labware for general lab applications



Life science products for microbiology and biotechnology



Cryo products for deep-freeze applications

Cryo Boxes, Cardboard, Format 133 x 133 mm and Grid Inserts



Cryo Boxes, Cardboard, Format 133 x 133 mm

Ultra-low temperature-resistant cardboard.

other sizes available on request

- for sample storage even at ultra-low temperatures
- temperature-resistant down to – 80 °C
- outer dimensions 133 x 133 mm
- available with a water-repellent standard coating or with a waterproof plastic coating
- highest flexibility: Cryo Boxes can be combined with different grid inserts for tubes from dia. 6 mm to dia. 28 mm
- the Cryo Boxes can be used for larger vessels when the grid is removed
- suitable grid inserts for cryo boxes available as follows:

Color	Quantity per Pack	Height 32 mm Order No.	Height 50 mm Order No.	Height 75 mm Order No.	Height 100 mm Order No.	Height 130 mm Order No.
Water-repellant standard coating						
white	10	5131321	5131501	5131751	5131 001	5131131
blue	10	5131322	5131502	5131752	5131 002	5131132
red	10	5131323	5131503	5131753	5131 003	5131133
green	10	5131324	5131504	5131754	5131 004	5131134
yellow	10	5131325	5131505	5131755	5131 005	5131135
With waterproof plastic coating						
white	10	5132321	5132501	5132751	5132 001	5132131
blue	10	5132322	5132502	5132752	5132 002	5132132
red	10	5132323	5132503	5132753	5132 003	5132133
green	10	5132324	5132504	5132754	5132 004	5132134
yellow	10	5132325	5132505	5132755	5132 005	5132135



Grid Inserts for Cryo Boxes, Format 133 x 133 mm

Ultra-low temperature-resistant cardboard.

other sizes available on request

- for sample storage
- temperature-resistant down to – 80 °C
- water-repellent finish
- packaging in practical folding boxes

Grid	Quantity per Pack	For Tube Dia. mm	Height of Grids 25 mm Order No.	Height of Grids 30 mm Order No.	Height of Grids 40 mm Order No.	Height of Grids 65 mm Order No.
4 x 4	10	28.0	5120214	5120215	5120216	5120217
5 x 5	10	23.0	5120124	5120125	5120126	5120127
6 x 6	10	19.0	5120134	5120135	5120136	5120137
7 x 7	10	16.0	5120144	5120145	5120146	5120147
8 x 8	10	14.0	5120154	5120155	5120156	5120157
9 x 9	10	11.5	5120165	5120166	5120167	5120168
10 x 10	10	10.5	5120175	5120174	5120176	5120177
12 x 12	10	8.5	5120185	5120184	5120186	5120187
13 x 13	10	8.0	5120194	5120195	5120196	5120197
14 x 14	10	7.0	5120204	5120205	5120206	5120207
16 x 16	10	6.0	5120225	5120226	5120227	5120228

Cryo Boxes, Cardboard 1/2-Format and Cryo Labels



Cryo Boxes and Grid Inserts, Cardboard, 1/2-Form 130 x 62 mm

Ultra-low temperature-resistant cardboard, white.

- for sample storage even at ultra-low temperatures
- temperature-resistant down to -80°C
- water-repellent finish

Product	Grid	W x D x H mm	For Tube Dia. mm	Quantity per Pack	Order No.
1/2-format Cryo Boxes, cardboard	–	130 x 62 x 50	–	10	5131506
1/2-format Grid Inserts	8 x 4	124 x 58 x 30	14.0	10	5120218
1/2-format Grid Inserts	10 x 5	124 x 58 x 30	10.5	10	5120128



Rainbow Cryo labels

For customizing the white Cryo Boxes, the Rainbow Cryo labels are available in colors: red, yellow, green, blue and purple.

- temperature-resistant down to -150°C
- 50 labels per pack, divided into 5 colors, 10 pieces of each color

Product	L x W mm	Quantity per Pack	Order No.
Rainbow Cryo labels	200 x 40	5 x 10	5120002

Cryo Boxes, Cardboard, Format 136 x 136 mm and Grid Inserts



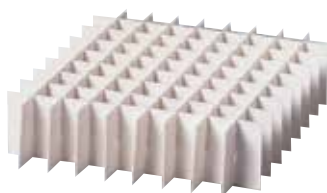
Cryo Boxes, Cardboard, Format 136 x 136 mm

Ultra-low temperature-resistant cardboard.

other sizes available on request

- for sample storage even at ultra-low temperatures
- temperature resistant down to – 80 °C
- outer dimensions 133 x 133 mm
- available with a water-repellent standard coating or with a waterproof plastic coating
- highest flexibility: Cryo Boxes can be combined with different grid inserts for tubes from dia. 6 mm to dia. 28.5 mm
- the Cryo Boxes can be used for larger vessels when the grid is removed
- suitable grid inserts for cryo boxes available as follows:

Color	Quantity per Pack	Height 32 mm Order No.	Height 50 mm Order No.	Height 75 mm Order No.	Height 100 mm Order No.	Height 130 mm Order No.
Water-repellant standard coating						
white	10	5141321	5141501	5141751	5141001	5141131
blue	10	5141322	5141502	5141752	5141002	5141132
red	10	5141323	5141503	5141753	5141003	5141133
green	10	5141324	5141504	5141754	5141004	5141134
yellow	10	5141325	5141505	5141755	5141005	5141135
Withwaterproof plasticcoating						
white	10	5142321	5142501	5142751	5142001	5142131
blue	10	5142322	5142502	5142752	5142002	5142132
red	10	5142323	5142503	5142753	5142003	5142133
green	10	5142324	5142504	5142754	5142004	5142134
yellow	10	5142325	5142505	5142755	5142005	5142135



Grid Inserts for Cryo Boxes, Format 136 x 136 mm

Ultra-low temperature-resistant cardboard.

other sizes available on request

- for sample storage
- temperature-resistant down to – 80 °C
- water-repellent finish
- packaging in practical folding boxes

Grid	Quantity per Pack	For Tube Dia. mm	Height of Grids 25 mm Order No.	Height of Grids 30 mm Order No.	Height of Grids 40 mm Order No.	Height of Grids 65 mm Order No.
4 x 4	10	28.5	5120210	5120211	5120212	5120213
5 x 5	10	23.5	5120121	5120120	5120122	5120123
6 x 6	10	19.5	5120131	5120130	5120132	5120133
7 x 7	10	16.5	5120143	5120140	5120142	5120141
8 x 8	10	14.5	5120152	5120150	5120151	5120153
9 x 9	10	12.0	5120163	5120160	5120161	5120162
10 x 10	10	11.0	5120173	5120170	5120172	5120171
12 x 12	10	9.0	5120182	5120180	5120181	5120183
13 x 13	10	8.5	5120190	5120193	5120191	5120192
14 x 14	10	7.5	5120202	5120203	5120201	5120200
16 x 16	10	6.5	5120221	5120222	5120223	5120224

Cryo Boxes, Cardboard, 1/2-Format and 1/4-Format

Format 136 x 136 x 75 mm and Format 148 x 148 x 130 mm



Cryo Boxes and Grid Inserts, Cardboard, 1/2-Format 134 x 67 mm and 1/4-Format 75 x 75 mm

Ultra-low temperature-resistant cardboard, white.

- for sample storage even at ultra-low temperatures
- temperature-resistant down to – 80 °C
- water-repellent finish

Product	Grid	W x D x H mm	For Tube Dia. mm	Quantity per Pack	Order No.
Water-repellant standard coating					
1/2-format Cryo Boxes, cardboard	–	134 x 67 x 50	–	10	5160028
1/2-format Grid Inserts	8 x 4	128 x 63 x 30	14.5	10	5120219
1/2-format Grid Inserts	10 x 5	128 x 63 x 30	11.0	10	5160029
1/4-format Cryo Boxes, cardboard	–	75 x 75 x 50	–	10	5160035
1/4-format Grid Inserts	5 x 5	68 x 68 x 30	11.0	10	5160036
With waterproof plastic coating					
1/2-format Cryo Boxes, cardboard	–	134 x 67 x 50	–	10	5162028
1/2-format Cryo Boxes, cardboard	–	134 x 67 x 75	–	10	5162751



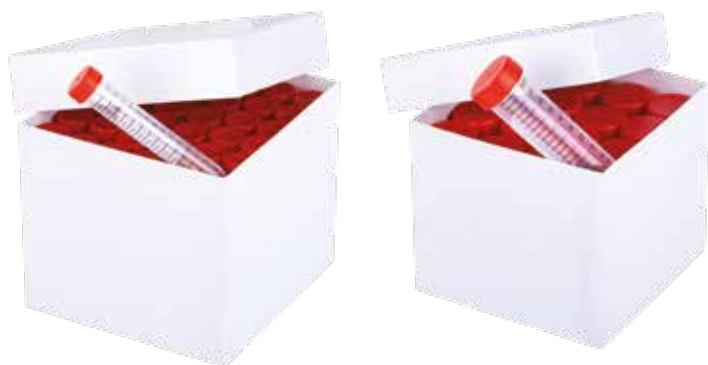
Cryo Boxes, Cardboard, Format 136 x 136 x 75 mm

Ultra-low temperature-resistant cardboard.

suitable for 5 ml microcentrifuge tubes

- for sample storage even at ultra-low temperatures
- with waterproof plastic coatings
- temperature resistant down to – 80 °C
- the Cryo Boxes can be used for larger vials when the grid is removed
- suitable for 5 ml microcentrifuge tubes

Color	W x D x H mm	Grid	For Tubes Ø x H mm	Quantity per Pack	Order No.
white	136 x 136 x 75	6 x 6	17 x 60	10	5142756



Cryo Boxes, Cardboard, Format 148 x 148 x 130 mm

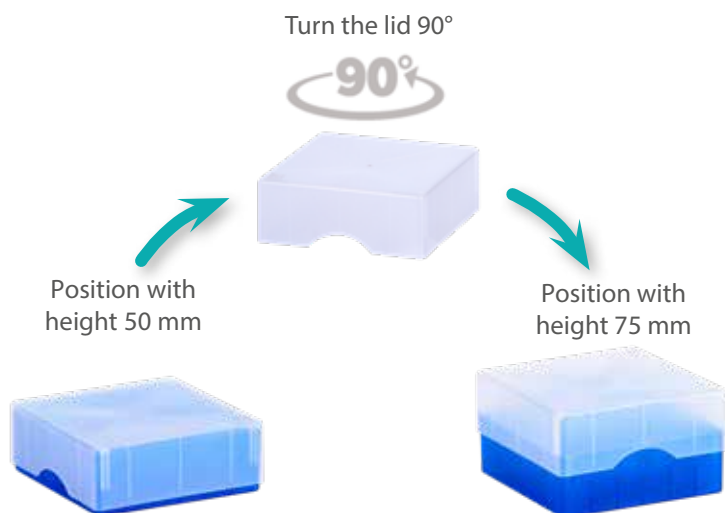
Ultra-low temperature-resistant cardboard.

suitable for centrifuge tubes

- for sample storage even at ultra-low temperatures
- with waterproof plastic coatings
- temperature resistant down to – 80 °C
- highest flexibility: Cryo Boxes can be combined with different grid inserts for tubes dia. 17 mm or dia. 30 mm
- the Cryo Boxes can be used for larger vials when the grid is removed
- suitable for centrifuge tubes: product no. 3300001 to 3300006

Color	W x D x H mm	Grid	For Tubes Ø x H mm	Quantity per Pack	Order No.
white	148 x 148 x 130	4 x 4	30 x 115	5	5144130
white	148 x 148 x 130	6 x 6	17 x 120	5	5144131

Cryo Boxes with Slip Lid, PP, Format 133 x 133 mm



2-in-1 Cryo Boxes with Slip Lid, PP, Format 133 x 133 mm

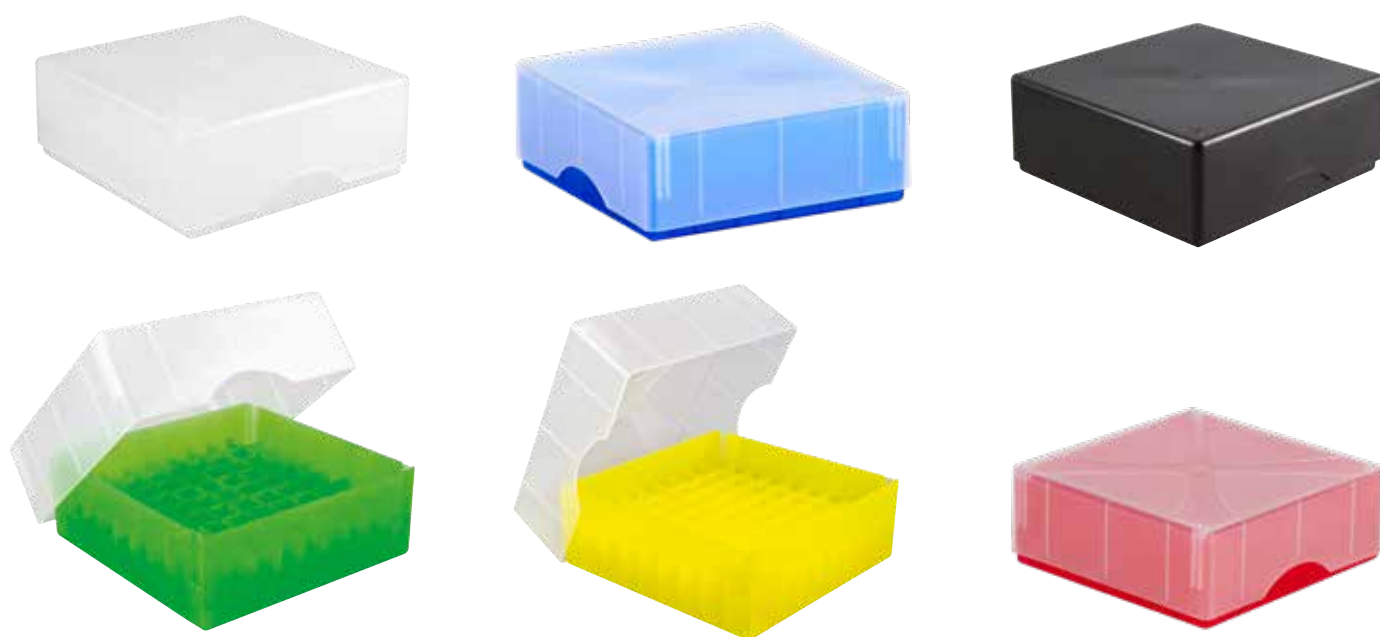
High-quality polypropylene (PP). Available in natural and other colors.

The specialty: the boxes are adjustable in height.

The boxes are available in 6 colors, with numerical coding and corresponding vents for draining condensed water.

The 6 x 6 to 10 x 10 grid accommodates space from 36 to 100 tubes.

- outer dimensions 133 x 133 mm
- autoclavable, temperature-resistant from -90°C to +121°C
- grids are available: 6 x 6, 7 x 7, 8 x 8, 9 x 9, 10 x 10
- numerically coded



	Grid For tube Dia.	6 x 6 19.0 mm	7 x 7 17.0 mm	8 x 8 15.0 mm	9 x 9 13.0 mm	10 x 10 11.5 mm
Color	Quantity per Pack	Order No.	Order No.	Order No.	Order No.	Order No.
natural	5	5320410	5320310	5320210	5320010	5320110
yellow	5	5320411	5320311	5320211	5320011	5320111
red	5	5320412	5320312	5320212	5320012	5320112
green	5	5320413	5320313	5320213	5320013	5320113
blue	5	5320414	5320314	5320214	5320014	5320114
black	5	5320415	5320315	5320215	5320015	5320115
mix pack	5	5320416	5320316	5320216	5320016	5320116

Cryo Boxes with Grids, PP, Format 133 x 133 mm



Cryo Boxes with Grids, PP, Format 133 x 133 mm

The boxes are made of high-quality polypropylene in natural or other colors. They are available with heights of 52 or 75 mm.

- autoclavable, temperature-resistant from -90°C to $+121^{\circ}\text{C}$
- 81 places, 9 x 9 grid, numerically coded
- robust hinge with safe snap-on lid
- stackable for safe transport
- drain bores at the bottom for dew liquids
- removable grid inserts
- Cryo Boxes can also be used for larger vials by removing the grid inserts

9 x 9 grid,
numerically coded



Color	W x D x H mm	For Tube Dia. mm	Grid	Quantity per Pack	Order No.
for Cryo Tubes 1.2 – 2 ml					
natural	142 x 133 x 52	12.8	9 x 9	5	5120010
yellow	142 x 133 x 52	12.8	9 x 9	5	5120011
red	142 x 133 x 52	12.8	9 x 9	5	5120012
green	142 x 133 x 52	12.8	9 x 9	5	5120013
blue	142 x 133 x 52	12.8	9 x 9	5	5120014
black	142 x 133 x 52	12.8	9 x 9	5	5120015
for Cryo Tubes 3ml					
natural	142 x 133 x 75	12.8	9 x 9	5	5120020
yellow	142 x 133 x 75	12.8	9 x 9	5	5120021
red	142 x 133 x 75	12.8	9 x 9	5	5120022
green	142 x 133 x 75	12.8	9 x 9	5	5120023
blue	142 x 133 x 75	12.8	9 x 9	5	5120024
black	142 x 133 x 75	12.8	9 x 9	5	5120025

Cryo Boxes and Grid Inserts, PP, Format 133 x 133 mm



Cryo Boxes and Grid Inserts, PP, Format 133 x 133 mm

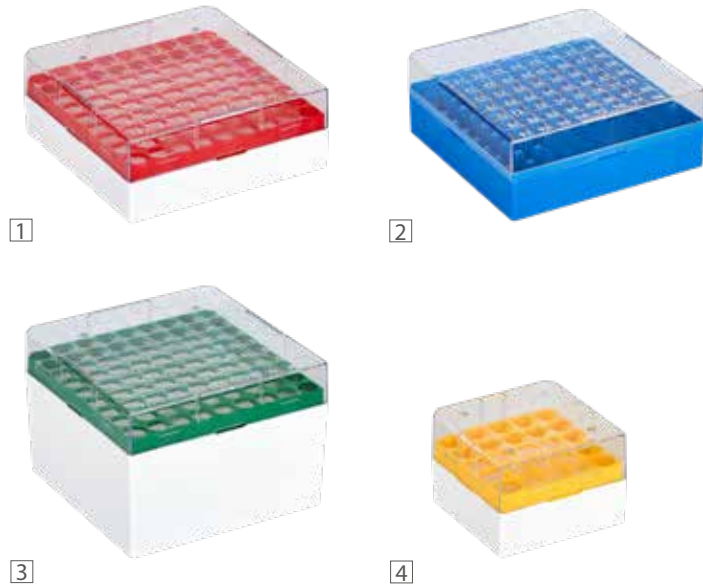
The boxes are made of high-quality polypropylene in natural or other colors. They are available with heights of 52 or 75 mm. These ratiolab® Cryo Boxes are particularly practical and flexible due to their removable grid inserts.

The separate natural-colored inserts are available in five sizes and can thus be used with sample vessels of differing diameters. The inserts fit all ratiolab® Cryo Boxes. Cleaning of the boxes and the inserts is much simpler than with Cryo Boxes with permanently fitted inserts.

- autoclavable, temperature-resistant from – 90°C to + 121°C
- robust hinge with safe snap-on lid
- stackable for safe transport
- drain bores at the bottom for dew liquids
- Cryo Boxes can also be used for larger vials by removing the grid inserts

Color	W x D x H mm	For Tube Dia. mm	Quantity per Pack	Order No.
Cryo Boxes without Grid Insert				
natural	142 x 133 x 52		5	5220010
yellow	142 x 133 x 52		5	5220011
red	142 x 133 x 52		5	5220012
green	142 x 133 x 52		5	5220013
blue	142 x 133 x 52		5	5220014
black	142 x 133 x 52		5	5220015
natural	142 x 133 x 75		5	5220020
yellow	142 x 133 x 75		5	5220021
red	142 x 133 x 75		5	5220022
green	142 x 133 x 75		5	5220023
blue	142 x 133 x 75		5	5220024
black	142 x 133 x 75		5	5220025
Grid Inserts				
6 x 6	142 x 133 x 30	20.5	5	5220100
7 x 7	142 x 133 x 30	17.3	5	5220101
8 x 8	142 x 133 x 30	15.8	5	5220102
9 x 9	142 x 133 x 30	12.8	5	5220103
10 x 10	142 x 133 x 30	11.2	5	5220104

Cryo Boxes with Grids, PC, Format 132 x 132 mm and 76 x 76 mm



Cryo Boxes with Grids, PC, Format 132 x 132 mm and 76 x 76 mm

Made of high-quality colored polycarbonate (PC).
For use with liquid nitrogen.

- autoclavable, temperature-resistant from – 190 °C to + 121 °C
- 81 or 100 places, 9 x 9 resp. 10 x 10 grids
- 1/4-format with 25 places, 5 x 5 grid
- numerically coded
- stackable for safe transport
- drain bores at the bottom for dew liquids

Color	Fig No.	W x D x H mm	For Tube Dia. mm	Grid	Quantity per Pack	Order No.
for Cryo Tubes 1.2 – 2 ml						
blue	1	132 x 132 x 52	12.3	9 x 9	5	5150001
green	1	132 x 132 x 52	12.3	9 x 9	5	5150002
red	1	132 x 132 x 52	12.3	9 x 9	5	5150003
yellow	1	132 x 132 x 52	12.3	9 x 9	5	5150004
for Cryo Tubes 1.2 – 2 ml						
blue	2	132 x 132 x 52	12.3	10 x 10	5	5150011
green	2	132 x 132 x 52	12.3	10 x 10	5	5150012
red	2	132 x 132 x 52	12.3	10 x 10	5	5150013
yellow	2	132 x 132 x 52	12.3	10 x 10	5	5150014
white	2	132 x 132 x 52	12.3	10 x 10	5	5150015
for Cryo Tubes 3 – 5 ml						
blue	3	132 x 132 x 94	12.3	9 x 9	4	5150021
green	3	132 x 132 x 94	12.3	9 x 9	4	5150022
red	3	132 x 132 x 94	12.3	9 x 9	4	5150023
yellow	3	132 x 132 x 94	12.3	9 x 9	4	5150024
1/4-format, for Cryo Tubes 1.2 – 2 ml						
blue	4	76 x 76 x 52	12.3	5 x 5	8	5150031
green	4	76 x 76 x 52	12.3	5 x 5	8	5150032
red	4	76 x 76 x 52	12.3	5 x 5	8	5150033
yellow	4	76 x 76 x 52	12.3	5 x 5	8	5150034

Cryo Tubes

Cryo Tubes

Polypropylene with the highest translucence. For the storing and conservation of tissue cultures and biological samples e.g. sera, blood, and spermatic. Suitable for storage from general cold storage refrigeration (+4°C) down to the vapor phase of liquid nitrogen.

Manufactured in a Clean Room ISO 7 (UNI EN ISO 14644-1). Class 10.000 (US FED STD 209E).

- sterilized by beta-radiation, products meet a minimum sterility assurance Level (SAL) of 10^{-6}
- autoclavable at 121 °C, 20 minutes
- completely free of DNA, DNase, Pyrogen, ATP, human DNA, and PCR Inhibitor
- lid with integrated sealing function; no additional silicone O-ring

- internal conical bottom for complete emptying
- white graduation for precise measurement
- white lettering for sample identification
- available with internal or external threads
- equipped with base for use with one hand
- each tube and package is labeled with an expiry date
- cap: PE and TVP
- 2.0 ml, 4.0 ml and 5.0 ml tubes available also with round bottom
- packaged in PE bags of 50 tubes in boxes
- suitable working stations: see page 89
- suitable cryo-boxes: see pages 80-87

free of DNA, DNase,
pyrogen, ATP, human DNA,
and PCR Inhibitor



Volume ml	Description	Ø x Height mm	Packaging	Quantity per Pack	Order No.
Cryo Tubes with External Thread					
1.2	self-standing	12.3 x 41	20 x 50	1000	5110112
2.0	round base	12.3 x 46	20 x 50	1000	5110120
2.0	self-standing	12.3 x 47	20 x 50	1000	5110122
3.0	self-standing	12.3 x 71	20 x 50	1000	5110130
4.0	self-standing	12.3 x 75	20 x 50	1000	5110140
5.0	self-standing	12.3 x 90	20 x 50	1000	5110150
Cryo Tubes with Internal Thread					
1.2	self-standing	12.3 x 43	20 x 50	1000	5110013
2.0	round base	12.3 x 47	20 x 50	1000	5110025
2.0	self-standing	12.3 x 48	20 x 50	1000	5110024
4.0	self-standing	12.3 x 76	20 x 50	1000	5110041
4.0	round base	12.3 x 75	20 x 50	1000	5110042
5.0	self-standing	12.3 x 91	20 x 50	1000	5110051
5.0	round base	12.3 x 90	20 x 50	1000	5110052

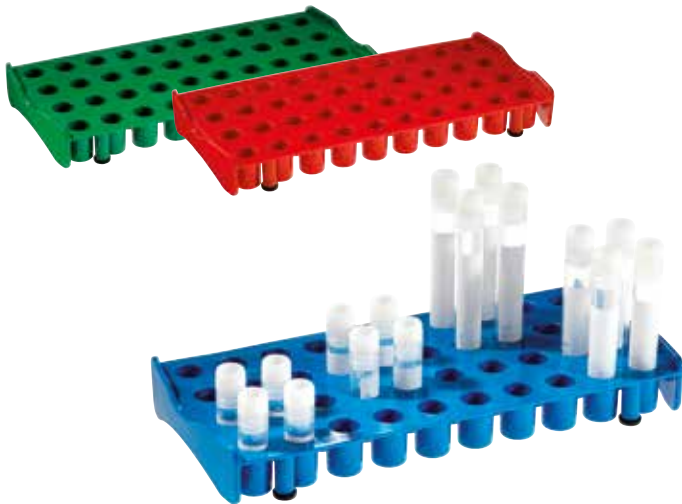
Cryo Tube Accessories



Color Coding Cap Inserts for Cryo Tube

Polypropylene. For cryo tubes 1.2 to 5.0 ml.
Packed in PE-bags with 1000 pcs.

Color	Quantity per Pack	Order No.
white	1000	5110001
red	1000	5110002
blue	1000	5110003
green	1000	5110004
yellow	1000	5110005



Work Stations for 40 Cryo Tubes

High-quality polypropylene.

For 40 Cryo Tubes 1.2 to 5 ml with 12.5 mm outer diameter. Cryo Tubes with a self-standing base are automatically locked in the Work Station and can easily be screwed and unscrewed with one hand.

- with non-slip feet, the Work Stations stand safely on laboratory benches
- autoclavable
- size (w x l x h) 100 x 220 x 30 mm



Color	Quantity per Pack	Order No.
green	5	5300400
red	5	5300200
blue	5	5300100

Racks for Freezer Chests



Vertical Racks, stainless steel

For the storing of Cryo Boxes in freezer chests.
Stainless steel.

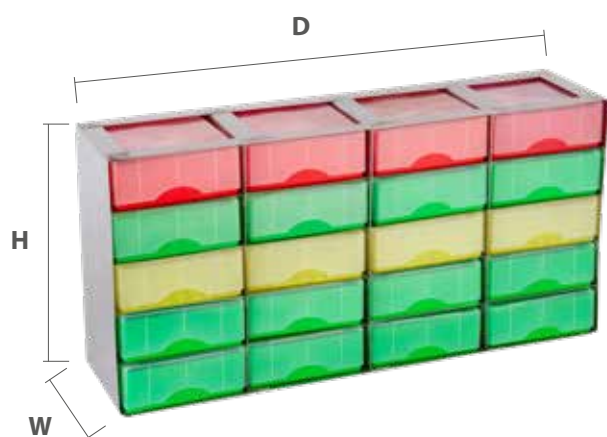
- for all Cryo Boxes format 130 x 130; 133 x 133; 136 x 136 and 148 x 148 mm
- surfaces for perfect cleaning
- robust construction
- handles for convenient transport
- rack size includes the holder
- Cryo Racks can be supplied with shelf sizes for any standard Cryo Boxes
- locking rod on request

Rack standard sizes are listed in the table below:

other sizes
available on request

Number of Shelves horizontal x vertical	Rack Size D x W x H mm	for Cryo Boxes Height					Quantity per Pack	Order No.
		32 mm	50 mm	75 mm	100 mm	160 mm		
1 x 4	150 x 150 x 665	-	-	-	-	■	1	New 5400065
1 x 4	140 x 140 x 222	-	■	-	-	-	1	5400041
1 x 5	140 x 140 x 277	-	■	-	-	-	1	5400021
1 x 5	140 x 140 x 531	-	-	-	■	-	1	5400039
1 x 6	140 x 140 x 335	-	■	-	-	-	1	New 5400067
1 x 6	140 x 140 x 482	-	-	■	-	-	1	5400028
1 x 7	140 x 140 x 385	-	■	-	-	-	1	5400042
1 x 7	140 x 140 x 561	-	-	■	-	-	1	5400029
1 x 8	140 x 140 x 441	-	■	-	-	-	1	5400027
1 x 8	140 x 140 x 641	-	-	■	-	-	1	5400030
1 x 9	140 x 140 x 495	-	■	-	-	-	1	5400026
1 x 9	140 x 140 x 720	-	-	■	-	-	1	5400031
1 x 10	140 x 140 x 550	-	■	-	-	-	1	5400000
1 x 11	140 x 140 x 406	■	-	-	-	-	1	5400032
1 x 11	140 x 140 x 604	-	■	-	-	-	1	5400023
1 x 12	140 x 140 x 443	■	-	-	-	-	1	5400033
1 x 12	140 x 140 x 659	-	■	-	-	-	1	5400025
1 x 13	140 x 140 x 479	■	-	-	-	-	1	5400034
1 x 13	140 x 140 x 713	-	■	-	-	-	1	5400001
1 x 14	140 x 140 x 516	■	-	-	-	-	1	5400035
1 x 15	140 x 140 x 552	■	-	-	-	-	1	5400036
1 x 16	140 x 140 x 589	■	-	-	-	-	1	5400037
1 x 17	140 x 140 x 625	■	-	-	-	-	1	5400038
1 x 18	140 x 140 x 662	■	-	-	-	-	1	5400024

Racks for Freezer Cabinets



Horizontal Racks, stainless steel

For the storing of Cryo Boxes in freezer cabinets and chests.
Stainless steel.

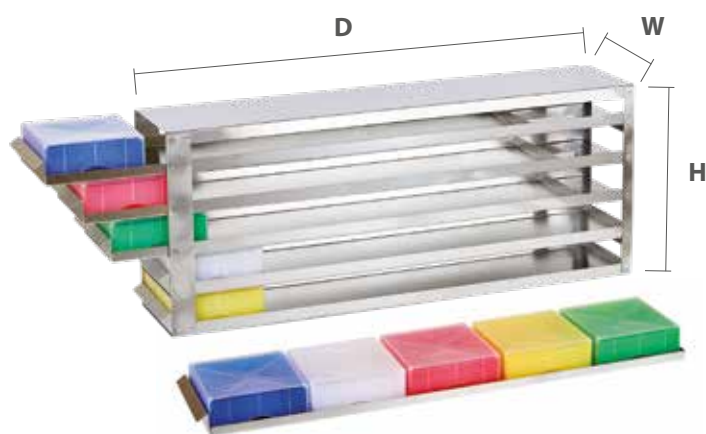
- for all Cryo Boxes format 130 x 130; 133 x 133 and 136 x 136 mm
- surfaces for perfect cleaning
- robust construction
- handles for convenient transport
- Cryo Racks can be supplied with shelf sizes for any standard Cryo Boxes

Rack standard sizes are listed in the table below:

**other sizes
available on request**

Number of Shelves horizontal x vertical	Number of Boxes	Rack Size D x W x H mm	for Cryo Boxes Height				Quantity per Pack	Order No.
			50 mm	75 mm	100 mm	130 mm		
3 x 3	9	424 x 140 x 165	■	-	-	-	1	5400007
3 x 4	12	424 x 140 x 219	■	-	-	-	1	5400009
3 x 5	15	424 x 140 x 274	■	-	-	-	1	5400022
4 x 2	8	566 x 140 x 164	-	■	-	-	1	5400011
4 x 2	8	566 x 140 x 219	-	-	■	-	1	5400010
4 x 2	8	566 x 140 x 275	-	-	-	■	1	5400012
4 x 3	12	566 x 140 x 240	-	■	-	-	1	5400006
4 x 3	12	566 x 140 x 314	-	-	■	-	1	5400040
4 x 4	16	566 x 140 x 219	■	-	-	-	1	5400004
4 x 4	16	566 x 140 x 319	-	■	-	-	1	5400005
4 x 5	20	566 x 140 x 274	■	-	-	-	1	5400003
4 x 6	24	566 x 140 x 328	■	-	-	-	1	5400002
4 x 7	28	566 x 140 x 391	■	-	-	-	1	5400008
5 x 2	10	705 x 140 x 161	-	■	-	-	1	5400016
5 x 2	10	705 x 140 x 212	-	-	■	-	1	5400020
5 x 3	15	705 x 140 x 240	-	■	-	-	1	5400017
5 x 4	20	705 x 140 x 219	■	-	-	-	1	5400013
5 x 4	20	705 x 140 x 319	-	■	-	-	1	5400018
5 x 5	25	705 x 140 x 274	■	-	-	-	1	5400014
5 x 6	30	705 x 140 x 328	■	-	-	-	1	5400015

Racks for Freezer Cabinets



Drawer Rack, stainless steel

For the storing of Cryo Boxes in freezer cabinets and chests.
Stainless steel.

- for all Cryo Boxes format 130 x 130; 133 x 133 and 136 x 136 mm
- cabinet slide-ins without pull-out stop
- easy-to-clean polished surface
- robust design

Rack standard sizes are listed in the table below:

other sizes
available on request

Number of Shelves horizontal x vertical	Number of Shelves	Rack Size D x W x H mm	for Cryo Boxes Height		Quantity per Pack	Order No.
			50 mm	75 mm		
4 x 2	8	570 x 144 x 112	■	-	1	5400043
4 x 3	12	570 x 144 x 168	■	-	1	5400044
4 x 3	12	570 x 144 x 250	-	■	1	5400019
4 x 4	16	570 x 144 x 224	■	-	1	5400046
4 x 4	16	570 x 144 x 335	-	■	1	5400066
4 x 5	20	570 x 144 x 280	■	-	1	5400045
4 x 6	24	570 x 144 x 336	■	-	1	5400047
4 x 7	28	570 x 144 x 392	■	-	1	5400049
5 x 3	15	709 x 144 x 241	-	■	1	5400052
5 x 4	20	709 x 144 x 224	■	-	1	5400050
5 x 4	20	709 x 144 x 321	-	■	1	5400053
5 x 5	25	709 x 144 x 280	■	-	1	5400048
5 x 6	30	709 x 144 x 336	■	-	1	5400051



Compartment insert for drawer racks

The compartment inserts for drawer frames prevent cryo boxes, micro test plates or racks in the SBS standard format from slipping.

Product	Quantity per Pack	Order- No.
for 4 Cryo Boxes up to 136x136mm	5	5410001
for 5 Cryo Boxes up to 136x136mm	5	5410002
for 6 Micro-Racks	5	5410101
for 7 Micro-Racks	5	5410102

Customized Racks



Individual Design and Manufacturing of Racks and Shelves for Sample Storage

Sample storage becomes more and more individual. ratiolab® develops and manufactures racks and shelves according to your requirements. Even for lower quantities, we offer this service.

Send us your request including the dimensions and quantities of the storage boxes or plates which you would like to store. Furthermore, we require the inner dimensions of your chest or cabinet freezer. You will receive our suggestion for your rack in brief.

This service includes the following racks:

Chest Freezer Racks made of Stainless Steel

The individualization includes the following parameters:

- compartment dimensions (footprint)
- compartment heights
- number of compartments (rack height)
- rack marking
- locking rod or safety clamp



Cabinet Freezer Racks made of Stainless Steel

The individualization includes the following parameters:

- compartment dimensions (footprint)
- compartment heights
- number of compartments (rack height)
- rack marking
- locking rod or safety clamp

Drawer Freezer Racks made of Stainless Steel

The individualization includes the following parameters:

- drawer heights
- number and placement of drawers (rack height and depth)
- rack marking
- safety stop for secure handling



Blood Bag Racks and Cassettes

The individualization includes the following parameters:

- cassette dimensions
- required number of cassettes per rack
- rack marking

Technical information



Think! Development and production of customized products



Pipettes & Equipment



Liquid handling products



Labware for general lab applications



Life science products for microbiology and biotechnology



Cryo products for deep-freeze applications

Chemical Resistance of Plastics

Chemical	PP		PS		HD-PE		LD-PE	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Aniline	+	+	-	-	+	+	+	0
Barium chloride	+	+	+	+	+	+	+	+
Benzaldehyde	+	+	-	-	+	+	+	+
Benzene (Benzol)	+	0	-	-	+	+	0	-
Benzine (Gasoline)	0	0	-	-	+	+	0	-
Benzoyl chloride	+	0	-	-	+	+	0	-
Benzyl alcohol	0	-	-	-	0	-	0	-
Benzylamine	0		-	-	0		0	-
Benzylchloride			-	-				
Boric acid, 10 %	+	+	+	+	+	+	+	+
Bromine	-	-	-	-	-	-	-	-
Bromobenzene	-	-	-	-	-	-	-	-
Bromoform	-	-	-	-	-	-	-	-
Bromonaphthalene			-	-				
Butanediol	+	+	-	-	+	+	+	+
1-Butanol	+	+	0	-	+	+	+	+
Butylamine			-	-				
n-Butyl acetate	0	0	-	-	+	+	0	0
Butyl methyl ether	+	0	-	-	0	-	0	-
Butyric acid	-	-	-	-	0	-	-	-
Calcium carbonate	+	+	+	+	+	+	+	+
Calcium chloride	+	+	+	+	+	+	+	+
Calcium hydroxide	+	+	+	0	+	+	+	+
Calcium hypochlorite	+	+	+	+	+	+	+	+
Calomel	+	+	+	0	+	+	+	+
Carbon disulfide	-	-	-	-	-	-	-	-
Carbon tetrachloride	-	-	-	-	0	-	-	-
Chloro naphthalene								
Chloroacetaldehyde, 45 %			-	-				
Chloroacetic acid	+	+	-	-	+	+	+	+
Chloroacetone			-	-				
Chlorobenzene	0	-	-	-	-	-	-	-
Chlorobutane	0	-	-	-	0	-	0	-
Chloroform	-	-	-	-	+	0	-	-
Chlorosulfonic acid								
Chromic acid, 10 %	+	+	-	-	+	+	+	+
Chromic acid, 50 %	0	0	-	-	+	0	+	0
Chromosulfuric acid	-	-	0	0	+	-	+	-
Copper sulfate	+	+	+	+	+	+	+	+
Cresol	0	0	-	-	0	-	-	-
Cumene (isopropyl benzene)	0	-	-	-	+	0	0	-
Cyclohexane	0	-	-	-	0	-	0	-
Cyclohexanone	0	-	-	-	0	-	-	-
Cyclopentane	0	-	-	-	0	-	-	-
Decane	0				0	-		
1-Decanol	+		0		+			
Dibenzylether	+		-	-	+			
Dibromoethane								
Dibutyl phthalate	+	0	-	-	0	-	0	-
Dichloroacetic acid	0	-	0	-	0	0	0	-
Dichlorobenzene	0	-	-	-	0	-	0	-
Dichloroethane	0	-			0	-	0	-
Dichloromethane	0	-	-	-	0	-	0	-
Diesel oil (Heating oil)	+	0	-	-	+	0	0	-
Diethanolamine	0		-	-	0			
1.2 Diethylbenzene	-	-	-	-	0	-	-	-

Chemical Resistance of Plastics

Chemical	PP		PS		HD-PE		LD-PE	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C
Ozone	0	-	0	0	0	-	0	-
n-Pentane								
Peracetic acid								
Perchloric acid	+	-	-	-	+	-	+	-
Perchloroethylene	-	-	-	-	-	-	-	-
Petroleum	0	-	-	-	0	-	0	-
Petroleum ether			-	-			0	
Phenol	+	+	-	-	+	+	+	0
Phenylethanol	0				0			
Phenylhydrazine	0				0			
Phosphoric acid, 85 %	+	+	+	0	+	+	+	+
Piperidine	+				+			
Potassium chloride	+	+	0	0	+	+	+	+
Potassium dichromate								
Potassium hydroxide	+	+	0	0	+	+	+	+
Potassium permanganate	+	+	+	+	+	+	+	+
Propanol	+	+	0		+	+	+	+
Propionic acid	+	0	0	-	+	0	0	-
Propylene glycol (propanediol)	+	+	+	+	+	+	+	+
Pyridine	0	0	-	-	+	0	+	0
Salicylaldehyde	+	+	-	-	+	+	+	+
Salicylic acid	+	+	+	+	+	+	+	+
Silver acetate	+	+	0	0	+	+	+	+
Silver nitrate	+	+	0	0	+	+	+	+
Sodium acetate	+	+	+	+	+	+	+	+
Sodium chloride	+	+	+	+	+	+	+	+
Sodium dichromate	+	+	+	0	+	+	+	+
Sodium fluoride	+	+	+	+	+	+	+	+
Sodium hydroxide, 30 %	+	+	+	+	+	+	+	+
Sulfuric acid, 60 %	+	+	-	-	+	+	+	+
Sulfuric acid, 98 %	-	-	-	-	0	-	0	-
Tartaric acid	+	+	+	+	+	+	+	+
Tetrachloroethylene								
Tetrahydrofuran (THF)	0	-	-	-	0	-	0	-
Tetramethylammonium hydroxide								
Toluene	0	-	-	-	0	0	0	-
Trichloroacetic acid	0	-	0	-	0	0	0	-
Trichlorobenzene	-	-	-	-	-	-	-	-
Trichloroethane	-	-	-	-	0	-	-	-
Trichloroethylene	-	-	-	-	0	-	-	-
Trichlorotrifluoroethane			-	-				
Triethanolamine			-	-				
Triethylene glycol	+	+	+	0	+	+	+	+
Trifluoroacetic acid (TFA)			-	-				
Trifluoro ethane			-	-				
Tripropylene glycol	+	+	+	+	+	+	+	+
Turpentine	-	-	-	-	0	-	0	-
Urea	+	+	+	+	+	+	+	+
Xylene	-	-	-	-	0	-	0	-
Zinc chloride, 10 %	+	+	+	+	+	+	+	+
Zinc sulfate, 10 %	+	+	+	+	+	+	+	+

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our products, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, not the suitability of the products for a specific purpose.

Plastics Technical Data and Index

Sterilizing plastic - Autoclaving

Recommended autoclave cycle: 20 minutes at 121 °C, 1 bar
The following plastics can be autoclaved several times: PP and PC

Standard abbreviations for plastics

DIN-Abbrev.	Description	Application temperature (°C)	
		from	to
ABS	acrylic butadiene styrene copolymer	-40	+85 (+100)
E-CTFE	ethylene chlortrifluoretylene	-70	+150 (+170)
ETFE	ethylene tetrafluor ethylene	-100	+150 (+180)
FEP	tetrafluor ethylene perfluorpropylene	-100	+205
HDPE	polyethylene high density	-50	+80 (+120)
LDPE	polyethylene low density	-50	+75 (+190)
MF	melamine	-60	+80 (+120)
NR	natural rubber	-40	+80
PA	polyamide (PA6)	-30	+80 (+140)
PBT	polybutylene terephthalate	-50	+150
PC	polycarbonate	-100	+135 (+140)
PE	polyethylene (see HDPE/LDPE)	-40	+80 (+90)
PES	polyether sulfone	-100	+150
PETG	polyethylene terephthalate	-40	+65
PFA	perfluoralkoxy	-200	+260
PMMA	polymethylmethacrylate	-40	+85 (+90)
PMP (TPX)	polymethylpentene	0	+150 (+180)
POM	polyoxymethylene	-40	+110 (+140)
PP	polypropylene	-100	+110 (+140)
PS	polystyrene	-20	+70 (+80)
PSU	polysulfone	-100	+150
PTFE	polytetrafluor ethylene	-200	+260
PVC	polyvinylchlorid	-20	+80
PVDF	polyvinylidene flouride	-40	+105 (+150)
SAN	styren acrylonitrile	-20	+85 (+95)
SI	silicone rubber	-50	+180 (+250)
TPE	thermoplastic elastomer	-50	+121
TPV	thermoplastic vulcanizate	-60	+135

Disclaimer: All information in this table are without guarantee.
Legal claims are excluded here.

Order No.	Page	Order No.	Page	Order No.	Page	Order No.	Page	Order No.	Page	Order No.	Page
1020230	63	1721000	37	2400624	34	2453630	34	2540192	32	2600206	42
1020231	63	1770010	36	2400630	34	2453640	35	2540502	32	2600216	42
1020240	63	1770020	36	2400640	35	2453642	35	2554162	33	2600220	41
1020241	63	1770100	36	2400642	35	2453650	35	2554163	33	2600230	40
1020242	63	1770200	36	2400645	35	2453653	35	2554172	32	2600240	40
1020243	63	1771000xl	36	2400650	35	2500110	32	2554192	32	2600250	42
1020250	63	2100500	32	2400653	35	2500130	34	2554502	32	2600260	40
1020251	63	2100553	33	2400655	35	2500140	32	2600111	42	2600270	40
1020260	63	2100555	34	2400660	34	2500150	33	2600119	41	2600280	41
1020261	63	2100600	32	2410620	34	2500160	33	2600120	41	2600290	40
1020330	63	2100610	33	2410630	34	2500163	33	2600125	40	2655111	42
1020331	63	2114602	32	2410640	35	2500170	32	2600131	41	2655120	41
1020340	63	2114612	33	2410642	35	2500180	34	2600135	41	2655131	41
1020341	63	2140602	32	2410650	35	2500190	32	2600145	40	2655135	41
1020350	63	2140612	33	2410653	35	2514162	33	2600151	42	2655151	42
1020351	63	2154602	32	2414602	32	2514163	33	2600155	40	2655171	40
1020540	63	2154612	33	2414612	33	2514172	32	2600160	41	2655181	41
1020541	63	2400600	32	2440602	32	2514192	32	2600165	42	2655206	42
1720010	37	2400610	33	2440612	33	2514502	32	2600171	40	2655230	40
1720020	37	2400620	34	2454602	32	2540162	33	2600181	41	2655240	40
1720100	37	2400622	34	2454612	33	2540163	33	2600190	42	2656111	42
1720200	37	2400623	34	2453620	34	2540172	32	2600195	42	2656135	41

Index

Order No.	Page	Order No.	Page	Order No.	Page	Order No.	Page	Order No.	Page	Order No.	Page
2656171	40	3514040	54	4770041	18	5120125	80	5120204	80	5132502	80
2711110	46	3514900	54	4770047	18	5120126	80	5120205	80	5132503	80
2712120	46	351490B	54	4770049	18	5120127	80	5120206	80	5132504	80
2722110	47	351490G	54	4770050	18	5120128	81	5120207	80	5132505	80
2722120	47	351490R	54	4770053	18	5120130	82	5120210	82	5132751	80
2725110	48	351490Y	54	4770057	18	5120131	82	5120211	82	5132752	80
2725120	48	3520000	54	4770063	18	5120132	82	5120212	82	5132753	80
2810100	47	3622000	54	4770064	19	5120133	82	5120213	82	5132754	80
2811110	47	3712005	55	4770065	19	5120134	80	5120214	80	5132755	80
2812011	48	3712006	55	4770066	19	5120135	80	5120215	80	5141001	82
2812012	49	3712007	55	4770067	19	5120136	80	5120216	80	5141002	82
2900106	43	3712008	55	4770068	19	5120137	80	5120217	80	5141003	82
2900107	43	3712009	55	4770069	19	5120140	82	5120218	81	5141004	82
2900109	43	3712010	55	4770070	19	5120141	82	5120219	83	5141005	82
2900401	43	3712301	55	4770071	19	5120142	82	5120221	82	5141131	82
2900402	43	3712302	55	4780010	21	5120143	82	5120222	82	5141132	82
2900403	43	3712303	55	4780012	21	5120144	80	5120223	82	5141133	82
2900404	43	3712304	55	4780018	21	5120145	80	5120224	82	5141134	82
2900405	43	3712305	55	4780020	21	5120146	80	5120225	80	5141135	82
2910101	43	3712306	55	4780025	21	5120147	80	5120226	80	5141321	82
2910102	43	3712307	55	4780058	21	5120150	82	5120227	80	5141322	82
2910103	43	3714010	54	4780100	21	5120151	82	5120228	80	5141323	82
2910104	43	3814010	54	4780200	21	5120152	82	5131001	80	5141324	82
2910105	43	3914900	54	4780308	21	5120153	82	5131002	80	5141325	82
2910106	43	391490B	54	4781000	21	5120154	80	5131003	80	5141501	82
2910107	43	391490G	54	4785000	21	5120155	80	5131004	80	5141502	82
2910109	43	391490R	54	4790052	21	5120156	80	5131005	80	5141503	82
2970001	24	391490Y	54	4790302	21	5120157	80	5131131	80	5141504	82
2970002	24	4760001	16	5110001	89	5120160	82	5131132	80	5141505	82
2970003	24	4760002	16	5110002	89	5120161	82	5131133	80	5141751	82
2970004	24	4760003	16	5110003	89	5120162	82	5131134	80	5141752	82
2970005	24	4760004	16	5110004	89	5120163	82	5131135	80	5141753	82
2970015	24	4760005	16	5110005	89	5120165	80	5131321	80	5141754	82
2980200	25	4760006	16	5110013	88	5120166	80	5131322	80	5141755	82
3014030	54	4760007	16	5110024	88	5120167	80	5131323	80	5142001	82
3101011	38	4760008	16	5110025	88	5120168	80	5131324	80	5142002	82
3102011	38	4760009	16	5110041	88	5120170	82	5131325	80	5142003	82
3105011	38	4760010	16	5110042	88	5120171	82	5131501	80	5142004	82
3110011	38	4760011	16	5110051	88	5120172	82	5131502	80	5142005	82
3125011	38	4760012	16	5110052	88	5120173	82	5131503	80	5142131	82
3150011	38	4760013	16	5110112	88	5120174	80	5131504	80	5142132	82
3170100	39	4760014	16	5110120	88	5120175	80	5131505	80	5142133	82
3170200	39	4760015	16	5110122	88	5120176	80	5131506	81	5142134	82
3170305	39	4760016	16	5110130	88	5120177	80	5131751	80	5142135	82
3170385	39	4760017	16	5110140	88	5120180	82	5131752	80	5142321	82
3170485	39	4760018	16	5110150	88	5120181	82	5131753	80	5142322	82
3200300	25	4760019	16	5120002	81	5120182	82	5131754	80	5142323	82
3200301	25	4760020	16	5120010	85	5120183	82	5131755	80	5142324	82
3200302	25	4760021	16	5120011	85	5120184	80	5132001	80	5142325	82
3200303	25	4770001	17	5120012	85	5120185	80	5132002	80	5142501	82
3200306	25	4770002	17	5120013	85	5120186	80	5132003	80	5142502	82
3200309	25	4770003	17	5120014	85	5120187	80	5132004	80	5142503	82
3200311	25	4770004	17	5120015	85	5120190	82	5132005	80	5142504	82
3200312	25	4770005	17	5120020	85	5120191	82	5132131	80	5142505	82
3300001	51	4770006	17	5120021	85	5120192	82	5132132	80	5142751	82
3300002	51	4770007	17	5120022	85	5120193	82	5132133	80	5142752	82
3300003	51	4770008	17	5120023	85	5120194	80	5132134	80	5142753	82
3300004	51	4770009	17	5120024	85	5120195	80	5132135	80	5142754	82
3300005	51	4770010	17	5120025	85	5120196	80	5132321	80	5142755	82
3300006	51	4770032	18	5120120	82	5120197	80	5132322	80	5142756	83
3514030	54	4770034	18	5120121	82	5120200	82	5132323	80	5144130	83
3514031	54	4770036	18	5120122	82	5120201	82	5132324	80	5144131	83
3514032	54	4770037	18	5120123	82	5120202	82	5132325	80	5150001	87
3514033	54	4770039	18	5120124	80	5120203	82	5132501	80	5150002	87

Index

Order No.	Page	Order No.	Page	Order No.	Page	Order No.	Page	Order No.	Page	Order No.	Page
5150003	87	5320312	84	5400052	92	6018221	66	7001300	58	8200010	70
5150004	87	5320313	84	5400053	92	6018223	66	7001305	56	8200021	75
5150011	87	5320314	84	5400065	90	6018311	66	7001310	58	8200022	75
5150012	87	5320315	84	5400066	92	6018313	66	7001311	58	8200023	75
5150013	87	5320316	84	5400067	90	6018321	66	7001400	56	8200024	75
5150014	87	5320410	84	5410001	92	6018323	66	7001400	58	8200025	75
5150015	87	5320411	84	5410002	92	6018401	67	7001400	60	8200026	75
5150021	87	5320412	84	5410101	92	6018402	67	7001401	58	8200027	75
5150022	87	5320413	84	5410102	92	6018421	67	7001401	60	8610001	71
5150023	87	5320414	84	5515010	51	6018422	67	7001405	56	8610002	71
5150024	87	5320415	84	5515040	51	6018610	76	7001405	60	8610003	71
5150031	87	5320416	84	5515041	51	6018611	77	7001410	56	8610006	71
5150032	87	5400000	90	5515051	51	6018612	76	7001410	60	8610007	71
5150033	87	5400001	90	551504D	51	6018618	76	7001415	60	8610011	72
5150034	87	5400002	91	5615000	52	6018619	76	7001420	60	8610012	72
5160028	83	5400003	91	5615001	52	6018620	76	7001430	60	8610013	72
5160029	83	5400004	91	5615002	52	6018621	77	7001440	60	8610014	72
5160035	83	5400005	91	5615003	52	6018622	77	7001450	60	8610015	71
5160036	83	5400006	91	5615004	52	6018630	77	7002100	58	8610016	72
5162028	83	5400007	91	5615005	52	6018631	77	7002105	58	8610017	72
5162751	83	5400008	91	5615008	53	6018632	77	7002110	57	8610020	72
5220010	86	5400009	91	5615009	53	6018710	67	7002111	57	8610021	72
5220011	86	5400010	91	5615020	52	6018711	67	7002112	57	8610039	71
5220012	86	5400011	91	5615030	52	6018712	67	7002113	57	8610040	71
5220013	86	5400012	91	5615038	53	6018713	67	7002150	58	9022000	22
5220014	86	5400013	91	5615039	53	6018717	67	7002155	58	9022001	22
5220015	86	5400014	91	5615101	52	6018718	67	7002200	58	9022028	23
5220020	86	5400015	91	5615106	52	6018719	67	7002205	58	9022030	23
5220021	86	5400016	91	5615108	53	6018720	67	7002300	58	9050000	61
5220022	86	5400017	91	5615109	53	6018810	66	7002305	58	9050003	61
5220023	86	5400018	91	5615158	53	6018812	66	7003100	57	9050004	61
5220024	86	5400019	92	5615159	53	6018813	66	7003110	57	9050005	61
5220025	86	5400020	91	5616021	53	6018820	66	7003120	57	9050006	61
5220100	86	5400021	90	5616022	53	6018822	66	7003130	57	9050100	61
5220101	86	5400022	91	5616023	53	6018823	66	7003200	59	9050103	61
5220102	86	5400023	90	5616025	53	6020110	69	7003210	59	9050104	61
5220103	86	5400024	90	5616026	53	6020121	69	7003220	59	9050105	61
5220104	86	5400025	90	5616027	53	6020221	69	7003225	59	9050106	61
5300100	89	5400026	90	5700110	50	6020320	69	7003230	59	9420016	28
5300200	89	5400027	90	5700120	50	6114100	73	7003235	59	9420017	28
5300400	89	5400028	90	5700200	50	6114101	73	7003300	59	9420018	28
5320010	84	5400029	90	5700401	50	6114102	73	7003310	59	9420024	21
5320011	84	5400030	90	5810100	50	6114103	73	7003320	59	9420026	19
5320012	84	5400031	90	5810110	50	6114104	73	7003325	59	9420027	19
5320013	84	5400032	90	581010D	50	6114105	73	7003330	59	9420029	19
5320014	84	5400033	90	5921173	62	6114110	73	7003335	59	9425516	28
5320015	84	5400034	90	5921174	62	6114111	73	7020100	61	9425517	28
5320016	84	5400035	90	5921175	62	6114200	73	7020200	61	9425518	28
5320110	84	5400036	90	5921176	62	6114201	73	8010161	31		
5320111	84	5400037	90	5921177	62	7000250	60	8030140	31		
5320112	84	5400038	90	5921178	62	7000260	60	8030150	31		
5320113	84	5400039	90	5921182	62	7000270	60	8101012	68		
5320114	84	5400040	91	5921183	62	7000300	60	8101101	70		
5320115	84	5400041	90	5921184	62	7000310	60	8200001	75		
5320116	84	5400042	90	5921185	62	7001000	58	8200002	75		
5320210	84	5400043	92	5921188	62	7001005	56	8200003	75		
5320211	84	5400044	92	5922250	62	7001100	58	8200004	75		
5320212	84	5400045	92	6018060	67	7001105	56	8200005	75		
5320213	84	5400046	92	6018111	66	7001150	58	8200006	75		
5320214	84	5400047	92	6018113	66	7001155	56	8200007	75		
5320215	84	5400048	92	6018121	66	7001200	58	8200008	70		
5320216	84	5400049	92	6018123	66	7001205	56	8200008	75		
5320310	84	5400050	92	6018211	66	7001210	58	8200009	70		
5320311	84	5400051	92	6018213	66	7001212	58	8200009	75		



Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Россия +7(495)268-04-70

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Казахстан +7(727)345-47-04

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Беларусь +(375)257-127-884

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саранск (8342)22-96-24
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Узбекистан +998(71)205-18-59

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Улан-Удэ (3012)59-97-51
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97

Киргизия +996(312)96-26-47