

ratiolab[®]

disposables for sciences



2007 / 2008

Liquid-Handling

The ratiolab® Product Range

For more than 30 years ratiolab® is developing in close co-operation with its customers professional solutions for the laboratory routine, the research and the development.

Our product range is structured in four applicational branches: Cryo Products for ultra-low temperature applications, Life Science for applications in the modern biological disciplines, Liquid Handling for the safe and precise handling of liquids and Lab Ware for general laboratory use.

The quality of our product range is certified according to DIN EN ISO 9001:2000 and guarantees the safe and practical application of ratiolab® products.



Your Questions are Our Future



We serve our customers and distributors world-wide with competent advice, a competitive product range, and excellent reliability. Our products are presented at the most important national and international exhibitions. Our laboratory distribution partners are regularly supported by individual trainings. Together with our partners we grow continuously, but we do not grow taller than they.

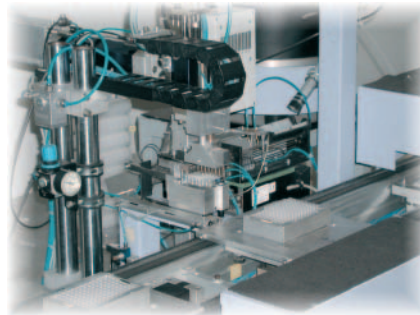
OEM and Private Label made by ratiolab®

Our experience and competence in producing demanding plastic disposables is your guarantee for our most competitive development and production of customized OEM and Private Label products. Ultra-modern CAD technology and the brilliant art of the toolmakers form the base for the short product development cycles and the premium quality. Cavity by cavity, bulk by bulk, product by product. We give any support regarding the product development, the production and the market conform make up and packaging.



Customized Make Up and Packaging

Highest flexibility is provided for the make up and packaging of the products. Fully automatic and semi automatic machines hardface cuvet racks, micro-tube racks or pipet tip racks and fill up bulkware. We will also find the optimum solution for your customized product range. We will develop your robotic conform



packagings according to your demands on the product purity and even for small series we will customize the packaging of your products according to the different national demands.

Our remarkable high production and warehouse capacities guarantee delivery on schedule.

ratiolab® - Your Partner for Complete Solutions

When planning your product solution for tomorrow we will give you competent advice. Our team provides detailed answers to your questions regarding the product, a fast and flexible development process, a most professional high-tech production and delivery on schedule at really competitive terms.

Dear customers

Our ratiolab[®] product range is continuously growing and developing to provide the optimum tools for your modern laboratory methods and processes. The actual product range is now presented in our four new catalog editions, marked with the year 2007/2008 at the front page.

The new catalogs can also be downloaded from the world wide web: www.ratiolab.com in German and English language. If you like to continuously receive more information on new ratiolab[®] products in future please send us your request by mail.

No catalog will be able to answer the manifold of technical and applicational questions completely. Our employees will give you more detailed information on your specific questions. The ratiolab[®] team will also support you for special product solutions or individual applicational questions.

To a successful co-operation.

Your
Johannes Frauendörfer
Managing Director



Brief information:

Our catalogs are intended for informational purposes only. However errors might be possible. Please appreciate therefore that no claims can be derived from our information and advice. Technical details are subject to alteration without notice. Pictures are for illustration only. They may not necessarily correspond to the described product in every detail. Dimensions given without any mention of tolerances are approximate values. Registered trademarks are indicated with [®], we do not guarantee for correctness and completeness.

valid from 01/2007

Inhalt	Seite
Masterpette G Pipettors	4
Pipettor Stands	4
Tub for Multi-Channel-Pipettors	4
ratiolab[®] Multibox[®]plus / MultiTray[®] Pipet Tips System	5
ratiolab[®] Pipet Tips	6 - 10
RNase-Ex	10
ratiolab[®] aroject[®] Pipet Tips	11
Serological Pipets	12
ratiolab[®] accupetta Pipetting Aid	13
ratiolab[®] safetypetta Pipetting Aid	13
Pasteur-Plast Pipets	14 - 15
ratiolab[®] Dispenser-Tips	16
PD-Dispenser-Tips with Typ-Code	16
ratiolab[®] Dispetta , Pipettor for Serial Dispensing	17
HandyStep[®] electronic , Pipettor for Serial Dispensing	17

Air Displacement Pipettors - Pipettor Stands



Masterpette G

Single-channel-pipettors.

- conformity certified
- complete unit autoclavable
- continuous, fast and comfortable volume setting, smooth operation of the adjustment ring
- fatigue-free pipetting even with long series due to short and smooth piston strike
- marked pipetting and blow-out function
- tip ejector removable for pipettings with narrow vessels
- separate tip ejector button for reduced misoperation
- very robust, also recommended for routine and production processes
- removable tip cone for convenient cleansing
- test certificate included in scope of delivery

Volume Range	Accuracy <math>< \pm</math>	Precision <math><</math>	Quantity per Pack	Order Number
0.5 - 10 μ l	4.0 - 0.5 %	4.0 - 0.4 %	1	47 40 010
2 - 20 μ l	4.0 - 0.8 %	3.0 - 0.4 %	1	47 40 020
10 - 100 μ l	1.6 - 0.8 %	0.8 - 0.3 %	1	47 40 030
20 - 200 μ l	2.0 - 0.6 %	0.6 - 0.3 %	1	47 40 040
100 - 1000 μ l	1.6 - 0.6 %	0.6 - 0.5 %	1	47 40 050
1000 - 5000 μ l	0.6 - 0.5 %	0.3 - 0.2 %	1	47 40 070



Pipettor Stands

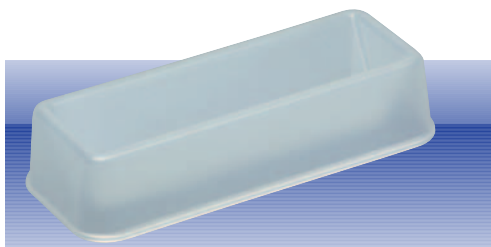
Pipettor Stand Labrack

- for the clearly laid out storing of up to 5 pipettors of different brands
- compatible with most multi-channel-pipettors

Pipettor Carussell for Masterpette G

- for up to 6 Masterpette G single-channel or 3 Masterpette G multi-channel-pipettors

Product	Quantity per Pack	Order Number
pipettor stand Labrack	1	94 20 020
pipettor carussell for Masterpette G	1	94 20 023



Tub for Multi-Channel-Pipettors

PP, natural color. Capacity approx. 50 ml.

Product	Quantity per Pack	Order Number
tub for multi-channel-pipettors	10	94 20 019

ratiolab® Multibox®plus / MultiTray® Pipet Tips System

The new ratiolab® Multibox®plus / MultiTray® system simplifies the handling of pipet tips and provides more safety.

➊ MultiTray®, the dust-proof stock packages of transparent plastics for ratiolab® pipet tips, holds the tips in plastic matrices ➋. Up to two times five plastic matrices filled with tips are stacked on top of each other in the space-saving MultiTray®.

➌ For tips up to 250 µl each matrices contain 96 pipet tips placed in the 8 x 12 standard format.

All 200 - 1000 µl tips are placed in a 6 x 10 format on the matrices. The matrices can simply be removed from the MultiTray® with the two finger tabs.

➍ The MultiTray® matrices are securely placed into the Multibox®plus with a soft click. The supporting surface of the Multibox®plus provides plane and full support of the MultiTray® matrices resulting in comfortable and safe tip pick up even with 8 or 12 channel pipettors.

For tip removal the dustproof, hinged cover ➎ of the Multibox®plus may be opened completely or partially

by using the additional sliding mechanism ➏. For cleaning processes the cover can be removed completely.

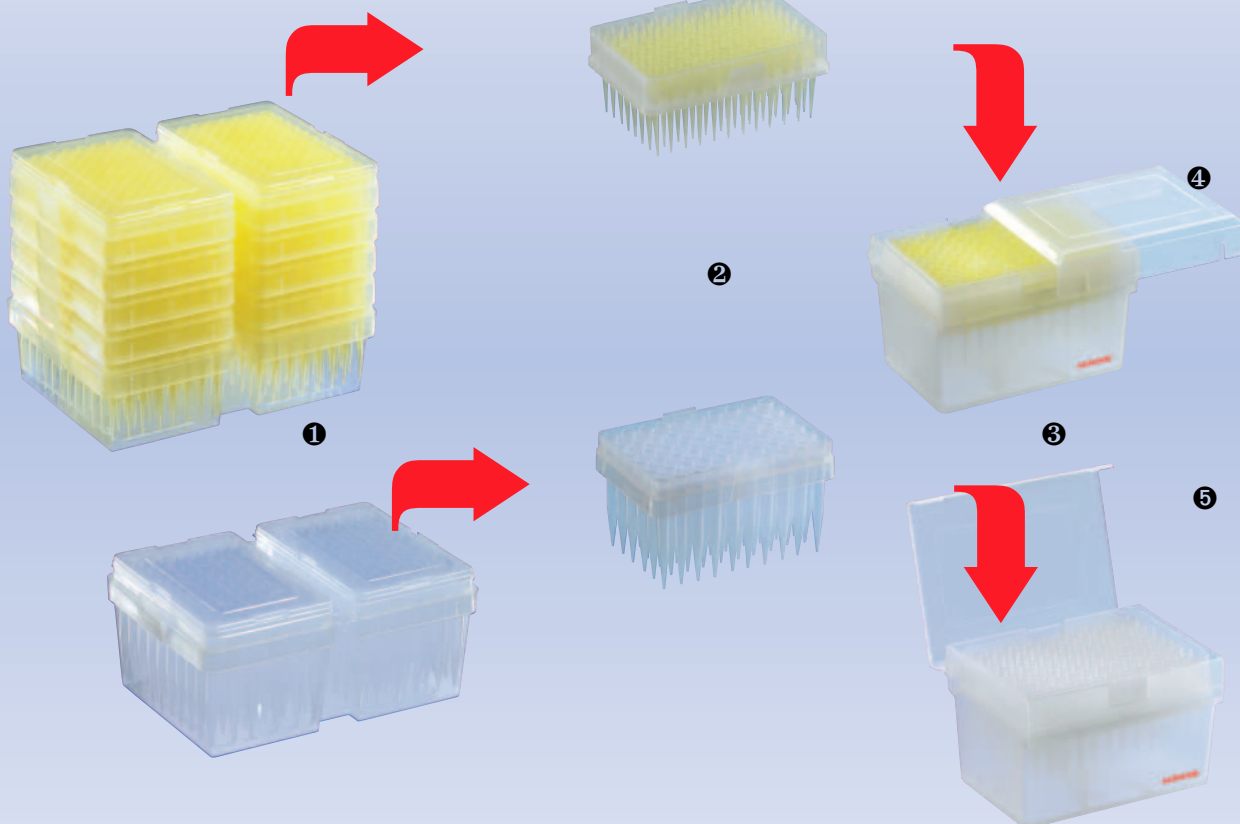
The ratiolab® Multibox®plus / MultiTray® system is space and cost saving. It clearly reduces the amount of waste, and it provides more comfortable and safe pipetting and sterilization processes.

For ordering information of the Multibox®plus® see page 10.

Economic and space saving:
Remove the dust cover from the ratiolab® MultiTray®, ...

...lift a single tip matrix, ...

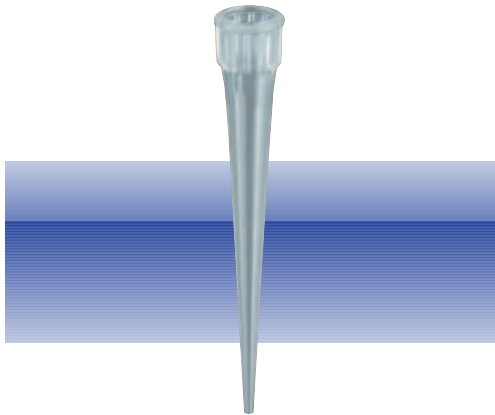
...and fit it with a click into the
Multibox®plus.



The hinged lid of the Multibox®plus also provides a sliding mechanism for complete or partial opening.

Pipetting

ratiolab® Pipet Tips



ratiolab® Pipet Tips

Precision in any detail guarantees highest quality.

- made of high quality polypropylene
- firm fit on pipettor cones
- optimum handling due to straight shape
- special ionization process guarantees dust free tip production
- excellent transparency due to optimum surface quality
- minimum fluid retention due to controlled raw material quality
- excellent volumetric accuracy due to precisely molded tip orifices
- most practical tip volumes
- sterile or non-sterile
- autoclavable
- aroject® tips with hydrophobic PE-HD filters providing an aerosol barrier and protecting against contamination
- for use with ratiolab® air displacement pipettors and major pipettor brands, conformity certified

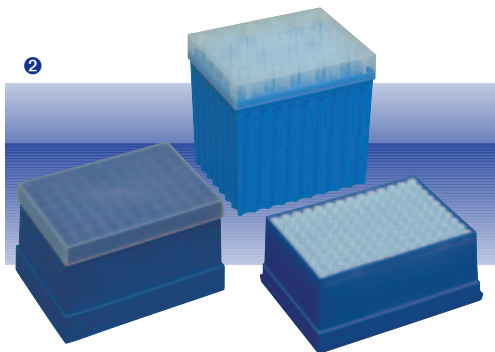
ratiolab® pipet tips perform perfect pipetting results.



ratiolab® pipet tips - always packed to your needs.

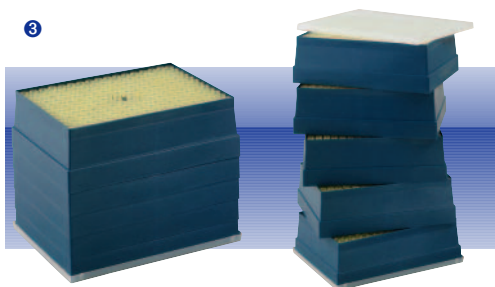
① **Plastic bags:**

- with tamper-proof closure indicating the virginal state of the tips before primary use
- practical, perforated tab providing comfortable opening of the bag



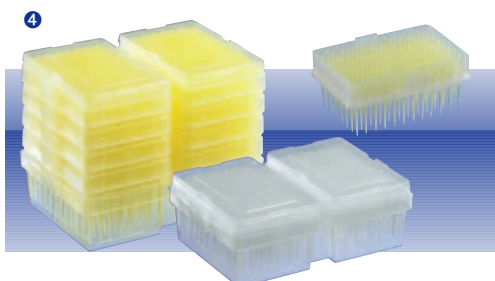
② **Plastic racks:**

- autoclavable, sterile or non-sterile
- with detachable lids
- 96-well micro test plate footprint for tip volumes up to 300 µl



③ **ratiolab® Rackpacks:**

- 5 stacked racks with a lid at the top layer to protect the tips from dust
- the space saving alternative



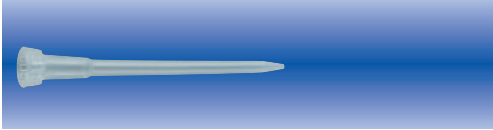

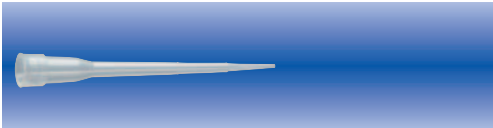
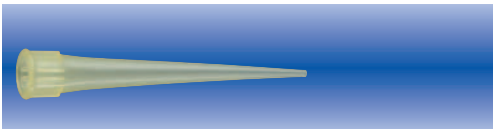
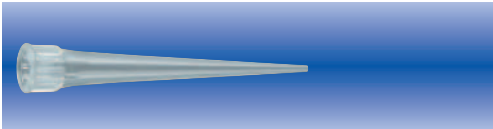
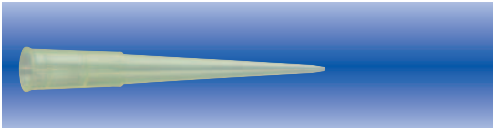
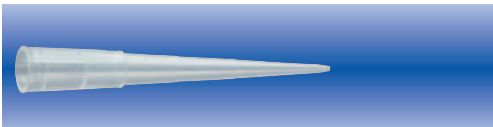
④ **MultiTray® for Multibox®plus and Multibox®:**

- the dust-proof refill pack with several plastic matrixes filled with tips
- the most functional, environmentally friendly, space and cost saving packaging
- for further product information please see page 5
- for ordering information please see page 10

Pipetting

ratiolab® Pipet Tips

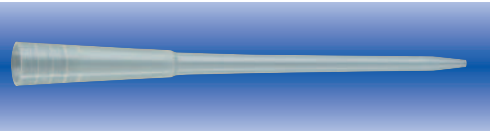
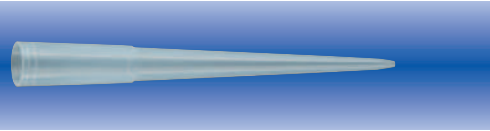
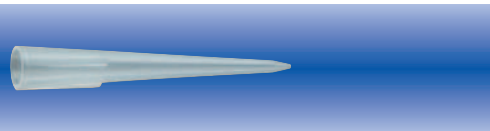



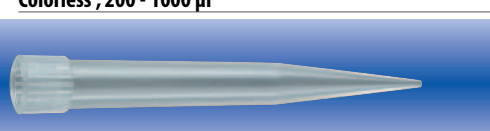
ratiolab® Pipet Tips 0.1 to 200 µl

Volume Range	fits Pipettors	Packaging	Quantity per Pack	Order Number	
Crystal -E-, 0.5 - 10 µl 	ratiolab® Masterpette G	●	bag 1 x 1 000	1 000	25 00 170
	Biohit® Proline	●	racks 10 x 96	960	25 10 172
	Biohit® m-Line	●	racks, sterile 10 x 96	960	25 55 172
	Brand® Transferpette®	●	MultiTray® 2 x 96	192	25 30 172
Crystal -G-, 0.1 - 10 µl 	●	●	bag 1 x 1 000	1 000	25 00 190
	●	●	racks 10 x 96	960	25 10 192
	●	●	racks, sterile 10 x 96	960	25 55 192
	●	●	MultiTray® 10 x 96	960	25 30 192
10µl XL, 0.1 - 10 µl 	●	●	bag 1 x 1 000	1 000	21 00 500
	●	●	racks 10 x 96	960	21 10 502
	●	●	racks, sterile 10 x 96	960	21 55 502
	●	●	MultiTray® 2 x 96	192	25 30 173
Yellow, 1 - 200 µl 	●	●	bag 1 x 1 000	1 000	21 00 600
	●	●	racks 10 x 96	960	21 10 603
	●	●	racks, sterile 10 x 96	960	21 55 603
	●	●	4 Rackpacks 5 x 200	4 000	21 10 602
	●	●	MultiTray® 10 x 96	960	21 30 602
Colorless, 1 - 200 µl 	●	●	bag 1 x 1 000	1 000	24 00 600
	●	●	racks 10 x 96	960	24 10 602
	●	●	racks, sterile 10 x 96	960	24 55 603
	●	●	MultiTray® 10 x 96	960	24 30 602
Yellow -G-, 1 - 200 µl 	●	●	bag 1 x 1 000	1 000	25 00 160
	●	●	racks 10 x 96	960	25 10 162
	●	●	racks, sterile 10 x 96	960	25 55 162
	●	●	MultiTray® 10 x 96	960	25 30 162
Colorless -G-, 1 - 200 µl 	●	●	bag 1 x 1 000	1 000	25 00 163
	●	●	racks 10 x 96	960	25 10 163
	●	●	racks, sterile 10 x 96	960	25 55 163
	●	●	MultiTray® 10 x 96	960	25 30 163

Pipetting

ratiolab® Pipet Tips

ratiolab® Pipet Tips 1 to 1000 µl

Volume Range	fits Pipettors	Packaging	Quantity per Pack	Order Number
Extended, 1 - 200 µl 	ratiolab® Masterpette G			
	Biohit® Proline		bag 1 x 400	400 24 00 700
	Biohit® m-Line			
	Brand® Transferpette®			
	CappAero			
	Eppendorf® Research®			
	Eppendorf® Reference®			
	Finnpipette® Digital	● ●		
	Finnpipette® Focus	● ●		
	Gilson® Pipetman®			
	Gilson® Ultra			
	Labmate®			
	Socorex® Acura			
	Socorex® Calibra			
Oxford, for Oxford pipettors only, 1 - 200 µl 		bag 1 x 1 000	1 000	25 00 110
MLA, for MLA pipettors only, 1 - 200 µl 		bag 1 x 1 000	1 000	25 00 140
Multi-Channel, graduated, 1 - 250 µl 		bag 1 x 1 000	1 000	23 00 600
		racks 10 x 96	960	23 10 603
		racks, sterile 10 x 96	960	23 55 603
		MultiTray® 10 x 96	960	23 30 602
Colorless, 1 - 300 µl 		bag 1 x 1 000	1 000	23 00 650
		racks 10 x 96	960	23 10 652
		racks, sterile 10 x 96	960	23 55 652
Blue, 200 - 1000 µl 		bag 1 x 1 000	1 000	21 00 610
		racks 8 x 140	1 120	21 10 612
		racks, sterile 8 x 140	1 120	21 55 611
		MultiTray® 2 x 60	120	21 30 612
Colorless, 200 - 1000 µl 		bag 1 x 1 000	1 000	24 00 610
		racks 8 x 140	1 120	24 10 611
		racks, sterile 8 x 140	1 120	24 55 611
		MultiTray® 2 x 60	120	24 30 612

Pipetting

ratiolab® Pipet Tips


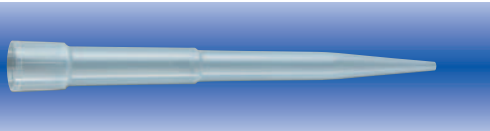
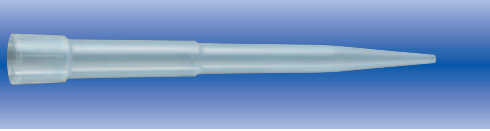
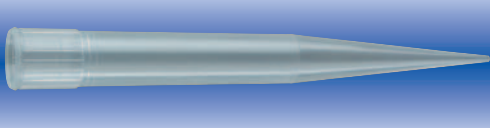
ratiolab® Pipet Tips 200 to 5000 µl

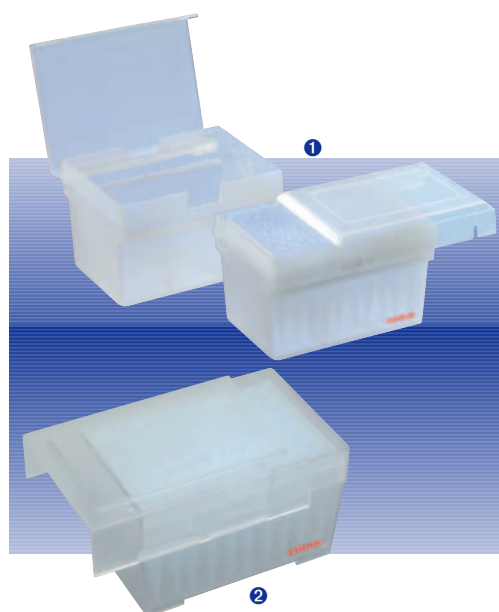
Volume Range	fits Pipettors	Packaging	Quantity per Pack	Order Number
MLA, for MLA pipettors only, 200 - 1000 µl	ratiolab® Masterpette G Biohit® Proline Biohit® m-Line Brand® Transferpette® CappAero Eppendorf® Research® Eppendorf® Reference® Finnpipette® Digital Finnpipette® Focus Gilson® Pipetman® Gilon® Ultra Labmate® Socorex® Acura Socorex® Calibra	bag 1 x 1 000	1 000	25 00 150
Colorless , for Dr. Lange pipettors only, 200 - 1000 µl		bag 1 x 1 000	1 000	25 00 130
Oxford, for Oxford pipettors only, 250 - 1000 µl		bag 1 x 1 000	1 000	25 00 120
„ES“, 500 - 2500 µl		bag 1 x 250	250	25 00 180
„MSB“ Multistepper, 1200 - 1500 µl		bag 1 x 400	400	24 00 682
		bag 1 x 1 000	1 000	24 00 684
Finntip, 1 - 5 ml		collapsible box 1 x 75	75	24 00 620
		bag 1 x 1 000	1 000	24 00 622
		bag 1 x 3 000	3 000	24 00 623
		bag 1 x 500	500	24 00 624
Makro, 1 - 5 ml		bag 1 x 250	250	24 00 630
		racks 10 x 50	500	24 10 630

Pipetting

ratiolab® Pipet Tips

ratiolab® Pipet Tips 1000 to 10000 µl

Volume Range	fits Pipettors	Packaging	Quantity per Pack	Order Number
	ratiolab® Masterpette G Biohit® Proline Biohit® m-Line Brand® Transferpette® CappAero Eppendorf® Research® Eppendorf® Reference® Finnpipette® Digital Finnpipette® Focus Gilson® Pipetman® Gilon® Ultra Labmat® Socorex® Acura Socorex® Calibra			
Makro graduated, 1 - 5 ml 		bag 1 x 250	250	24 00 690
		racks 10 x 50	500	24 10 690
Makro II, 1 - 5 ml 	• • •	bag 1 x 300	300	24 00 650
	• • •	racks 10 x 50	500	24 10 650
Makro, for Dr. Lange pipettors only, 1 - 5 ml 	• • •	bag 1 x 300	300	24 10 130
	• • •	racks 10 x 50	500	24 10 131
Finntip, 2 - 10 ml 	• • •	bag 1 x 100	100	24 00 640



ratiolab® Multibox®plus und Multibox® für MultiTray® Pipettenspitzen

Reusable pipet tip boxes for all ratiolab® MultiTray® tips.

- Multibox®plus, PP, with dust-proof hinged and sliding lid, completely removable
- Multibox®, PC, with dust-proof sliding lid
- several times autoclavable at 121 °C, 20 min
- for further information please see page 5

Product	Quantity per Pack	Order Number
ratiolab® Multibox®plus, PP, empty, for all MultiTray® pipet tips ①	1	80 20 001
ratiolab® Multibox®, PC, empty, for all MultiTray® pipet tips ②	1	80 10 160

Pipetting

ratiolab® Pipet Tips



ratiolab® aeroject® tips - Pipet Tips with Aerosol Barrier

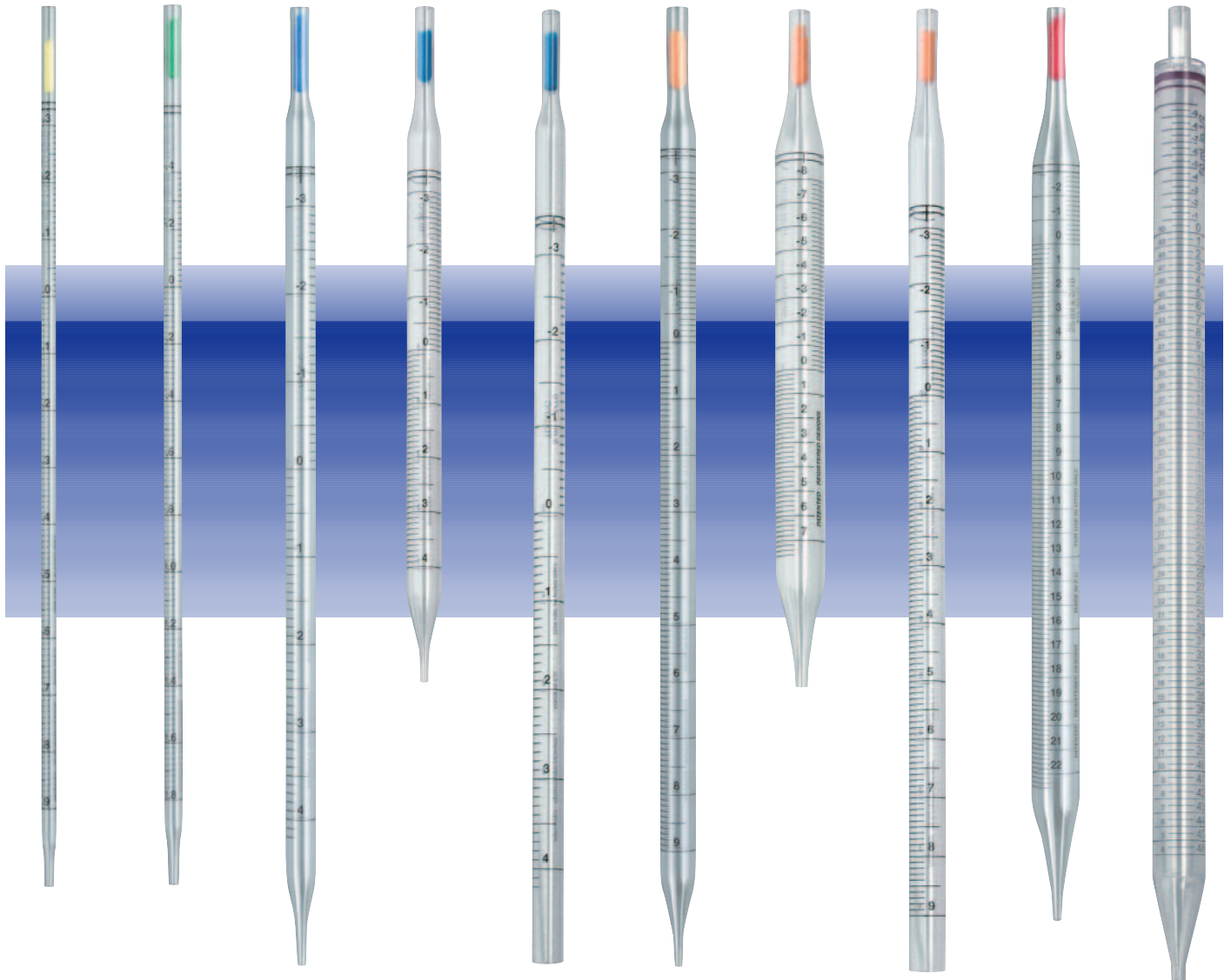
Pipet tips with special filters,
to effectively prevent the the pipettor shaft from contaminations with aerosols and
liquids to be sucked into the pipettor.

- certified RNase- and DNase-free
- pipet tips and aerosol filters made of ultra-hydrophobic PE-HD
- minimized retention due to special surface treatment
- sterile
- perfect and tight fit on all major pipettor brands
- aeroject® 10 µl xl with extended length for operation with narrow vessels and reduced risk of cross-contamination
- packed in plastic racks with hinge lids
- 10 to 200 µl tips packed acc. to 8 x 12 micro test plate footprint

Volume Range	fits Pipettors	Packaging	Quantity per Pack	Order Number
aeroject® tips xl, 0.1 - 10 µl	ratiolab® Masterpette G Biohit® Proline Biohit® m-Line Brand® Transferpette® CappAero Eppendorf® Research® Eppendorf® Reference® Finnpipette® Digital Finnpipette® Focus Gilson® Pipetman® Gilson® Ultra Labmate® Socorex® Acura Socorex® Calibra	racks 10 x 96	960	17 60 010
aeroject® tips , 1 - 20 µl		racks 10 x 96	960	17 60 020
aeroject® tips , 1 - 100 µl		racks 10 x 96	960	17 60 100
aeroject® tips , 1 - 200 µl		racks 10 x 96	960	17 60 200
aeroject® tips , 100 - 1000 µl		racks 8 x 60	480	17 61 000

Pipetting

Serological Pipets



31 01 011

31 02 011

31 05 011

31 05 013

31 05 014

31 10 011

31 10 013

31 10 014

31 25 011

31 50 011

Serological Pipets

Glass clear polystyrene.

- seamless molded: the pipets are more accurate, more robust and provide a reduced retention
- permanent black printed graduation
- with color coded cotton-wool plug for comfortable identification, color code acc. to standard-code
- negative graduation for additional capacity
- 5, 10 and 25 ml pipets with scales for the dispensed and the residual volume
- sterile, individually packed

Positive Volume	Negative Volume	Graduation	Quantity per Pack	Order Number
1 ml	0,3 ml	0,01 ml	500	31 01 011
1,1 ml	-	0,5 - 1 - 1,1 ml	500	31 01 012
2 ml	0,4 ml	0,02 ml	500	31 02 011
2,2 ml	-	0,5 - 1 - 2 - 2,1 - 2,2 ml	500	31 02 012
5 ml	3 ml	0,1 ml	250	31 05 011
5 ml short	3 ml	0,1 ml	200	31 05 013
5 ml wide tip	3 ml	0,1 ml	125	31 05 014
10 ml	3 ml	0,1 ml	200	31 10 011
10 ml short	3 ml	0,1 ml	100	31 10 013
10 ml wide tip	8 ml	0,2 ml	125	31 10 014
25 ml	2,6 ml	0,2 ml	100	31 25 011
50 ml	9 ml	0,5 ml	75	31 50 011

Pipetting Pipetting Aids

ratiolab[®] accupetta

Leightweight electronic pipetting aid, for fatigue-free operation

- three speeds adjustable
- weight 180 g
- autoclavable silicone adapter for all types of pipets from 1 to 100 ml
- hydrophobic filter
- environmentally friendly rechargeable metal hydride battery, 8 hours capacity

Scope of delivery: ratiolab[®] accupetta including battery charger 230 V, 50 Hz.

Product	Quantity per Pack	Order Number
ratiolab [®] accupetta	1	32 00 100
spare adapter, silicone	1	32 00 101
spare filter, hydrophobic, non-sterile, 0.2 µm	1	32 00 102
spare filter, hydrophobic, non-sterile, 0.45 µm	1	32 00 103



ratiolab[®] safetypetta

The small and handy pipetting aid.

The bulb at the top is simply pressed with fingers and ball.

The device is ready for pipetting.

With the pipetting knob in up-position the pipet is filled, up to 50 ml per stroke.

In down-position the pipet runs empty.

For complete discharging the blow-out bulb may be pressed.

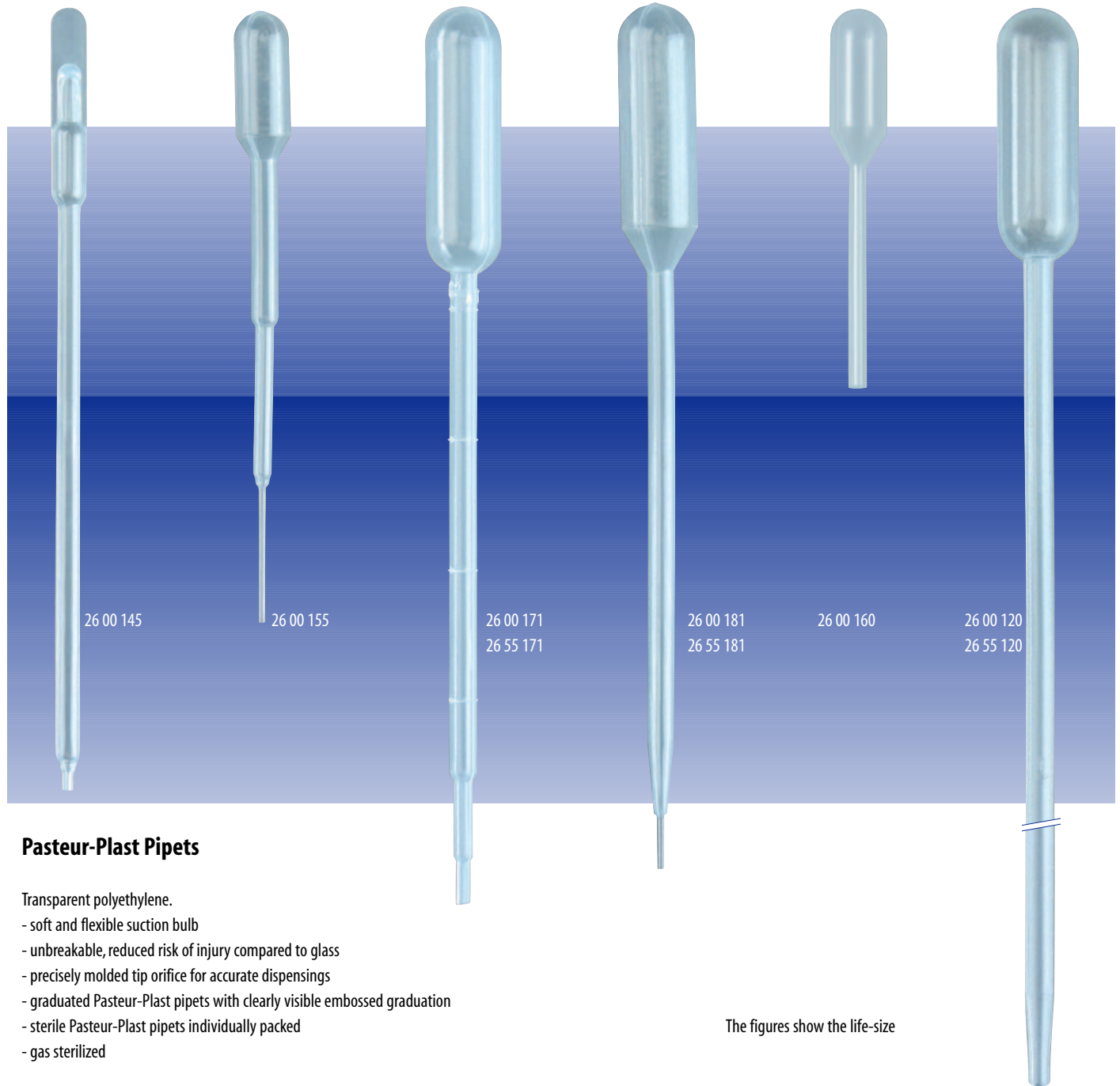
- autoclavable
- robust, light weight, precise pipetting
- very easy handling

Product	Quantity per Pack	Order Number
ratiolab [®] safetypetta	1	32 00 200



Pipetting

Pasteur-Plast Pipets



Pasteur-Plast Pipets

Transparent polyethylene.

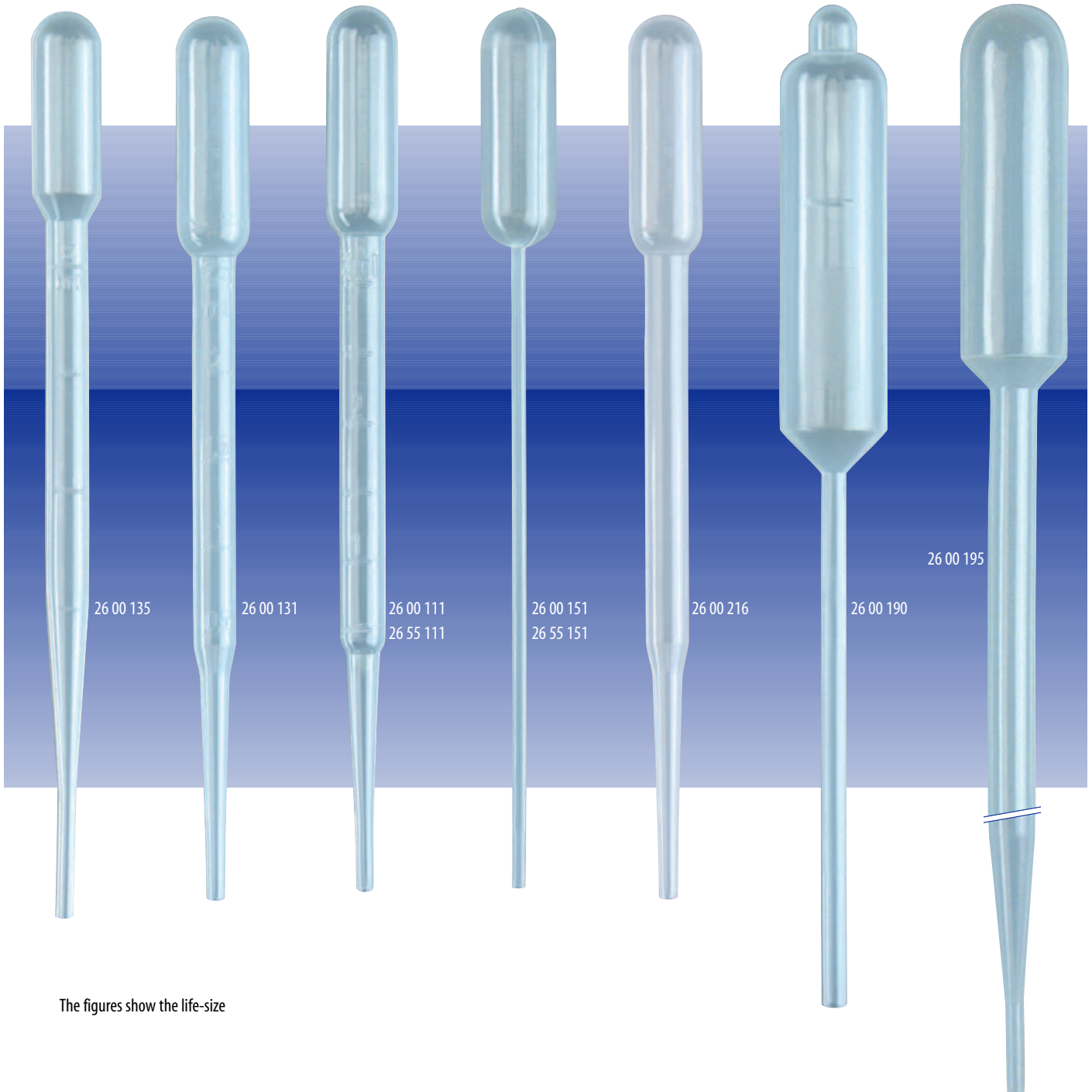
- soft and flexible suction bulb
- unbreakable, reduced risk of injury compared to glass
- precisely molded tip orifice for accurate dispensings
- graduated Pasteur-Plast pipets with clearly visible embossed graduation
- sterile Pasteur-Plast pipets individually packed
- gas sterilized

The figures show the life-size

Volume	Graduation	Length	Drop Volume µl	Drops per ml	Description	Quantity per Pack	Order Number
0.2 ml	non-graduated	130 mm	30	33	non-sterile	1 x 500	26 00 145
1.0 ml	non-graduated	104 mm	20	50	non-sterile	1 x 400	26 00 155
1.0 ml	graduated	150 mm	33	30	non-sterile	1 x 500	26 00 171
1.0 ml	graduated	150 mm	33	30	sterile	1 x 500	26 55 171
1.0 ml capillary	non-graduated	144 mm	14	70	non-sterile	1 x 500	26 00 181
1.0 ml capillary	non-graduated	144 mm	14	70	sterile	1 x 500	26 55 181
1.2 ml	non-graduated	63 mm	40	25	non-sterile	1 x 500	26 00 160
1.5 ml	non-graduated	230 mm	45	22	non-sterile	1 x 400	26 00 120
1.5 ml	non-graduated	230 mm	45	22	sterile	1 x 500	26 55 120

Pipetting

Pasteur-Plast Pipets



The figures show the life-size

Volume	Graduation	Length	Drop Volume μ l	Drops per ml	Description	Quantity per Pack	Order Number
2.0 ml	graduated	155 mm	45	22	non-sterile	1 x 500	26 00 135
2.5 ml	graduated	150 mm	30	33	non-sterile	1 x 500	26 00 131
3.0 ml Macro	graduated	150 mm	40	25	non-sterile	1 x 500	26 00 111
3.0 ml Macro	graduated	150 mm	40	25	sterile	1 x 500	26 55 111
3.0 ml Micro	non-graduated	150 mm	33	30	non-sterile	1 x 500	26 00 151
3.0 ml Micro	non-graduated	150 mm	33	30	sterile	1 x 500	26 55 151
4.0 ml	non-graduated	150 mm	40	25	non-sterile	1 x 500	26 00 216
10 ml	non-graduated	170 mm	56	18	non-sterile	1 x 200	26 00 190
10 ml	non-graduated	300 mm	45	22	non-sterile	1 x 100	26 00 195

Dispensing Dispenser Tips



ratiolab® Dispenser-Tips

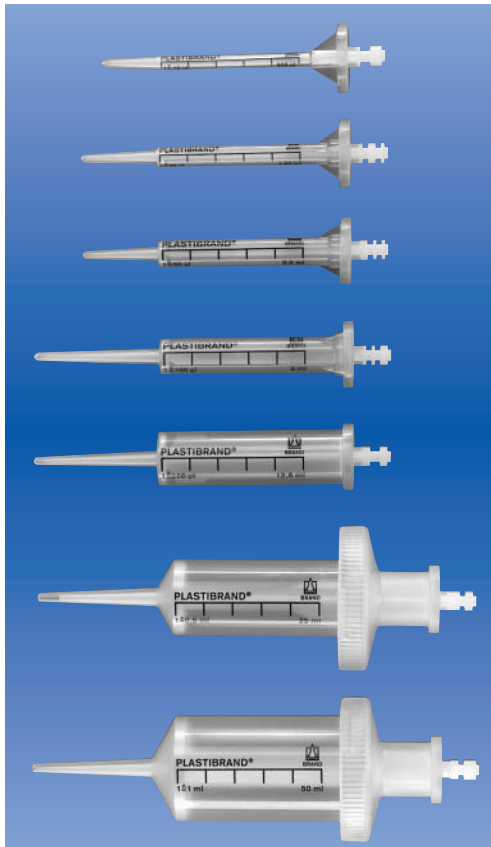
For serial pipettings.

Dispenser-Tips fit onto ratiolab®-Dispetta and Eppendorf Multipette® 4780.

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

Volume	Description	Quantity per Pack	Order Number
0.5 ml	non-sterile	100	29 00 101
1.25 ml	non-sterile	100	29 00 102
2.5 ml	non-sterile	100	29 00 103
5.0 ml	non-sterile	100	29 00 104
12.5 ml	non-sterile	100	29 00 105
25 ml	non-sterile	50	29 00 109
50 ml	non-sterile	25	29 00 106
adapter	non-sterile	10	29 00 107

0.5 ml	sterile, individually packed	100	29 10 101
1.25 ml	sterile, individually packed	100	29 10 102
2.5 ml	sterile, individually packed	100	29 10 103
5.0 ml	sterile, individually packed	100	29 10 104
12.5 ml	sterile, individually packed	100	29 10 105
25 ml	sterile, individually packed	25	29 10 109
50 ml	sterile, individually packed	25	29 10 106
adapter	sterile, individually packed	5	29 10 107



PD-Dispenser-Tips with Type-Code

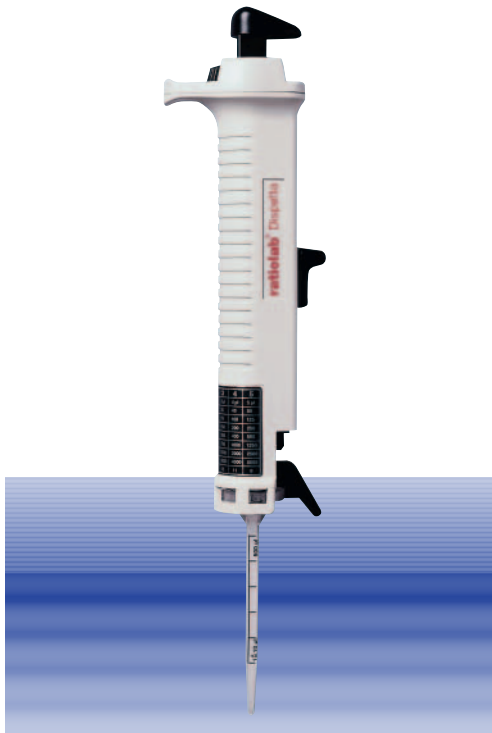
For serial pipettings.

The volume of the Dispenser-Tip is automatically identified by the pipetting device (Handy-Step® electronic only).

PD-Dispenser-Tips fit onto ratiolab®-Dispetta, Brand Handy-Step® and Handy-Step® electronic and Eppendorf Multipette® 4780. Adapters for 25 ml and 50 ml Dispenser-Tips must be ordered separately.

Volume	Description	Quantity per Pack	Order Number
0.5 ml	non-sterile	100	29 00 201
1.25 ml	non-sterile	100	29 00 202
2.5 ml	non-sterile	100	29 00 203
5.0 ml	non-sterile	100	29 00 204
12.5 ml	non-sterile	100	29 00 205
25 ml	non-sterile	50	29 00 209
50 ml	non-sterile	25	29 00 206
adapter	non-sterile	10	29 00 207

0.5 ml	sterile, individually packed	100	29 10 201
1.25 ml	sterile, individually packed	100	29 10 202
2.5 ml	sterile, individually packed	100	29 10 203
5.0 ml	sterile, individually packed	100	29 10 204
12.5 ml	sterile, individually packed	100	29 10 205
25 ml	sterile, individually packed	25	29 10 209
50 ml	sterile, individually packed	25	29 10 206
adapter	sterile, individually packed	5	29 10 207



ratiolab® Dispetta, Pipettor for Serial Dispensing

Comfortable and robust instrument for serial dispensing with Dispenser Tips.

Five volume settings combined with seven Dispenser Tip sizes result in 35 different volumes from 10 µl to 5 ml.

The Dispenser Tip is filled similar to a syringe.

Step by step dispensing is operated by pressing the dispenser button.

- ergonomic design and light weight for most comfortable handling
- smooth and fatigue-free operation even with long series
- precise and convenient volume setting
- clearly visible volume adjustment, optimized readability
- table with volume scale fixed directly onto the instrument
- precise gear mechanism for accurate and reproducible pipettings
- safe, rapid and easy exchange of Dispenser Tips
- maintenance-free
- long life due to robust design

Product	Quantity per Pack	Order Number
ratiolab® Dispetta	1	29 80 100



HandyStep® electronic, Pipettor for Serial Dispensing

Hand held dispenser with micro processor controlled precision.

For serial dispensing, most convenient to operate.

- automatic tip size registration when using PD-Tips with type code
- fits almost any customary dispenser tips
- variable volume adjustment from 1 µl to 50 ml
- digital LCD display for volume, number of steps, operation speed, mode and battery charging level
- three operation modes: dispensing, auto dispensing, pipetting
- in the auto dispensing mode the processor calculates the mean operation frequency from three manually operated dispensings to continue the operation automatically
- three operation speeds can be chosen for liquids with different viscosity and density
- easy programming by an intuitive guided menu
- no out of function intervals due to exchangeable batteries, which can be charged on the instrument or separately
- quality controlled and individually certified, serial number included

Scope of delivery: HandyStep® with NiMH battery, charger with dispenser stand and power supply 230 V/50 Hz.

Product	Quantity per Pack	Order Number
HandyStep® complete	1	47 50 002
power supply 230 V/50 Hz	1	47 50 003
charger stand without power supply	1	47 50 004
NiMH-battery	1	47 50 005



Ratiolab GmbH
Am Siebenstein 5
D-63303 Dreieich-Buchschlag

Tel. ++49(0)6103 / 300 25-0
Fax ++49(0)6103 / 300 25-55

E-Mail info@ratiolab.com
Web www.ratiolab.com