

# CATALOGUE

2013 | 2014



 **ahn**  
biotechnologie GmbH  
A Harvard Bioscience Company

## LIQUID HANDLING PRODUCTS

Liquid Handling	Page
<b>Tips   Filter Tips</b>	
<b>Top-Line® Tips</b>	
Features	5
Specifications   Order Information	6
<b>Macro-Line® Tips</b>	
Specifications   Order Information	7
<b>Top-Line® Filter Tips</b>	
Features	8
Specifications   Order Information	9-10
<b>Premium-Line® Tips   Filter Tips</b>	
Features	11
Specifications   Order Information	12-13
<b>Rackbox-System without Tips</b>	
Features   Specifications   Order Information	14
<b>Pipettes</b>	
<b>pipet4u® Performance Manual Pipettes</b>	
Features	17
Specifications   Order Information	
<b>pipet4u®</b> Single Channel fixed Volume Manual Pipettes	18
<b>pipet4u®</b> Single Channel variable Volume Manual Pipettes	19
<b>pipet4u®</b> Multi Channel variable Volume Manual Pipettes	20
<b>pipet4u® Revolution Electronic Pipettes</b>	
Features	21
Specifications   Order Information	
<b>pipet4u® Revolution</b> Single Channel variable Volume Electronic Pipettes	22
<b>pipet4u® Revolution</b> Multi Channel variable Volume Electronic Pipettes	22
<b>pipet4u® Oasis Pipette Controller</b>	
Features	23
Specifications   Order Information	24
<b>pipet4u® Accessories</b>	
Specifications   Order Information	25
<b>Tubes</b>	
<b>PCR Tubes</b>	
Features	29
Specifications   Order Information - PCR Tubes 0.2 ml   0.5 ml flat and domed cap	30
<b>Micro Tubes</b>	
Features	31
Specifications   Order Information - Micro Tubes 0.5 ml   1.5 ml   2.0 ml	32

Liquid Handling	Page
<b>Tubes</b>	
<b>Centrifuge Tubes</b>	
Features   Specifications   Order Information - Centrifuge Tubes 15 ml   50 ml	33
<b>Cryo Tubes</b>	
Features   Specifications   Order Information	34
<b>Cryo Boxes</b>	
Features   Specifications   Order Information	35
<b>Filtration   Ultra Filtration   DNA Purification</b>	
<b>Mini Spin Column Systems</b>	
Features   Specifications   Order Information	39
<b>Deep Well Microplate   Filter Microplate</b>	
Features   Specifications   Order Information	40
<b>Vacuum Manifold</b>	
Features   Specifications   Order Information	40
<b>ULTRAPrep® MiniPrep DNA Kits</b>	
Features   Specifications   Order Information	41
<b>Appendix</b>	
<b>Terms and Conditions</b>	43-44



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Fourth Edition, 2013

# TIPS | FILTER TIPS



# Top-Line® Tips

Innovation for Science

## Features



metal-free



- Secure fit and simple ejection of tip**  
 Optimized cone geometry with wide sealing zone
- Quick and simple volume check**  
 Graduation marks on tip
- Precise pipetting without loss of sample**  
 Conical tip outlet prevents drop formation at the outlet opening of tip
- Elimination of risk of sample contamination**  
 Tips manufactured from autoclavable, non-wettable, virgin polypropylene
- Maintain sample integrity**  
 Available as sterilized version (by beta irradiation)
- Available in bags or rackboxes**



AHN Rackbox-System

### Specifications Top-Line® and Macro-Line® Tips:

General requirements  
CE-marking certificate

Sterility certificate  
RoHS Compliance certificate  
Environmental Management certificate  
USP-Plastic Test, Class VI, certificate  
Conformity testing certificate  
GMP/GLP certificate

ISO Standard 8655  
EU-Directive 98/79/EG, competent authority code DE/CA90  
EN 552/ISO 11137 and DIN EN 556  
EU Directive 2002/95/EC  
ISO Standard 14000 and ISO Standard 14001  
ISO Standard 10993  
DIN Standard 12600  
WHO Technical Report Series 908, 37. Report, Geneva2003



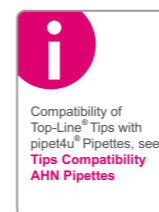
Racks are made out of 98% AHN owned recycled material

# Top-Line® Tips

Innovation for Science

## Specifications | Order Information

Tip	Tip Length	Cat. No.	Pack Type	Sterilized	Sales Unit
0.1-10 µl, clear Top-Line® Tip	34.1 mm	1-000-60-0	Bag	■	2x1000
		1-000-81-0	Bag		20x1000
		1-000-96-0	96-Rack		10x96
		1-001-60-0	Bag		2x1000
		1-001-96-0	96-Rack		10x96
0.1-10 µl XL, clear Top-Line® Tip	45.2 mm	1-060-60-0	Bag	■	2x1000
		1-060-81-0	Bag		20x1000
		1-060-96-0	96-Rack		10x96
		1-061-60-0	Bag		2x1000
		1-061-96-0	96-Rack		10x96
0.5-10/20 µl, clear Top-Line® Tip	45.7 mm	1-050-60-0	Bag	■	2x1000
		1-050-81-0	Bag		20x1000
		1-050-96-0	96-Rack		10x96
		1-051-60-0	Bag		2x1000
		1-051-96-0	96-Rack		10x96
		1-052-96-0***	96-Rack		10x96
1-200 µl, clear Top-Line® Tip	50.8 mm	1-110-60-0	Bag	■	2x1000
		1-110-81-0	Bag		20x1000
		1-110-96-0	96-Rack		10x96
		1-111-60-0	Bag		2x1000
		1-111-96-0	96-Rack		10x96
1-200 µl, yellow Top-Line® Eco-Line®** Tip	50.8 mm	1-110-60-1	Bag	■	2x1000
		1-110-81-1	Bag		20x1000
		1-110-96-1	96-Rack		10x96
		1-100-81-1**	Bag		35x1000
1-200 µl, clear Top-Line® Gelloader Tip	67.0 mm	1-130-50-0	Bag	■	1x1000
		1-130-96-0	96-Rack		10x96
		1-131-50-0	Bag		1x1000
		1-131-96-0	96-Rack		10x96
5-300 µl, clear Top-Line® Tip	55.0 mm	1-103-60-0	Bag	■	2x1000
		1-103-81-0	Bag		20x1000
		1-103-96-0	96-Rack		10x96
		1-104-60-0	Bag		2x1000
		1-104-96-0	96-Rack		10x96
100-1000 µl, short, clear blue Top-Line® Tip	70.1 mm	1-207-06-2	60-Rack	■	10x60
		1-207-50-2	Bag		1x1000
		1-209-06-2	60-Rack		10x60
		1-209-50-2	Bag		1x1000
		1-209-80-2	Bag		10x1000
100-1000 µl, long, clear Top-Line® Tip	86.0 mm	1-200-50-0	Bag	■	2x500
		1-200-80-0	Bag		20x500
		1-200-96-0	96-Rack		10x96
		1-201-50-0	Bag		2x500
		1-201-96-0	96-Rack		10x96
100-1000 µl, long, blue Top-Line® Eco-Line®** Tip	86.0 mm	1-200-50-2	Bag	■	2x500
		1-200-80-2	Bag		20x500
		1-200-96-2	96-Rack		10x96
		1-210-80-2**	Bag		20x500



Compatibility of Top-Line® Tips with pipet4u® Pipettes, see Tips Compatibility AHN Pipettes







Information correct at time of printing. \*\*\* different tip design.

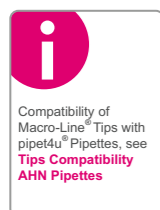
Information correct at time of printing.

# Macro-Line® Tips

Innovation for Science

Specifications | Order Information

Tip	Tip Length	Cat. No.	Pack Type	Sterilized	Sales Unit
	126.0 mm	1-211-84-0 1-215-84-0	Bag Bag	■	8x250 8x250
	126.0 mm	1-210-84-0 1-214-84-0	Bag Bag	■	8x250 8x250
	147.5 mm	1-212-84-0 1-216-84-0	Bag Bag	■	8x250 8x250
	150.0 mm	1-213-50-0 1-217-50-0	Bag Bag	■	10x100 10x100



# Top-Line® Filter Tips

Innovation for Science

Features



- Secure fit and simple ejection of tip**  
 Optimized cone geometry with wide sealing zone
- Quick and simple volume check**  
 Graduation marks on tip
- Precise pipetting without loss of sample**  
 Conical tip outlet prevents drop formation at the outlet opening of tip
- Elimination of risk of sample contamination**  
 Tips manufactured from autoclavable, non-wettable, virgin polypropylene
- Maintain sample integrity**  
 Available as sterilized version (by beta irradiation)
- Available in bags or rackboxes**

- No sample contamination from filter**  
 Use of virgin high quality hydrophobic polyethylene filters without additives
- No pipette contamination**  
 Restrains aerosols and liquids (vaporous, radioactive, biohazardous or corrosive samples) through micropore filter technology (MPS technology, filter pore size 8-10 µm)

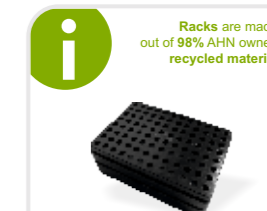


### Specifications Top-Line® Filter Tips:

General requirements  
 CE-marking certificate

Sterility certificate  
 RoHS Compliance certificate  
 Environmental Management certificate  
 USP-Plastic Test, Class VI, certificate  
 Conformity testing certificate  
 GMP/GLP certificate

ISO Standard 8655  
 EU-Directive 98/79/EG, competent authority code DE/CA90  
 EN 552/ISO 11137 and DIN EN 556  
 EU Directive 2002/95/EC  
 ISO Standard 14000 and ISO Standard 14001  
 ISO Standard 10993  
 DIN Standard 12600  
 WHO Technical Report Series 908, 37. Report, Geneva2003

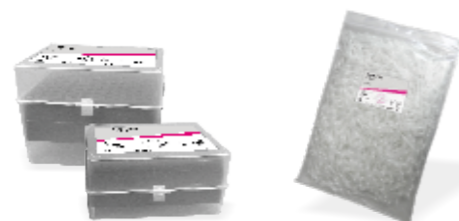
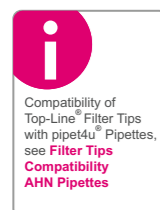


# Top-Line® Filter Tips

Specifications | Order Information

Innovation for Science




Filter Tip	Tip Length	Cat. No.	Pack Type	Sterilized	Sales Unit
 0.1-10 µl, clear Top-Line® Filter Tip	34.1 mm	2-000-70-0	Bag	■	5 x 1000
		2-000-96-0	96-Rack		10 x 96
		2-001-70-0	Bag		5 x 1000
		2-001-96-0	96-Rack		10 x 96
 0.1-10 µl XL, clear Top-Line® Filter Tip	45.2 mm	2-060-70-0	Bag	■	5 x 1000
		2-060-96-0	96-Rack		10 x 96
		2-061-70-0	Bag		5 x 1000
		2-061-96-0	96-Rack		10 x 96
 0.5-10 µl, cristal Top-Line® Filter Tip	45.7 mm	2-050-70-0	Bag	■	5 x 1000
		2-050-96-0	96-Rack		10 x 96
		2-051-70-0	Bag		5 x 1000
		2-051-96-0	96-Rack		10 x 96
		2-052-96-0**	96-Rack		10 x 96
 0.5-20 µl, cristal Top-Line® Filter Tip	45.7 mm	2-053-70-0	Bag	■	5 x 1000
		2-053-96-0	96-Rack		10 x 96
 1-20 µl, clear Top-Line® Filter Tip	50.8 mm	2-114-70-0	Bag	■	5 x 1000
		2-114-96-0	96-Rack		10 x 96
		2-124-70-0	Bag		5 x 1000
		2-124-96-0	96-Rack		10 x 96
 1-30 µl, clear Top-Line® Filter Tip	50.8 mm	2-116-70-0	Bag	■	5 x 1000
		2-116-96-0	96-Rack		10 x 96
		2-126-70-0	Bag		5 x 1000
		2-126-96-0	96-Rack		10 x 96
 1-50 µl, clear Top-Line® Filter Tip	50.8 mm	2-111-70-0	Bag	■	5 x 1000
		2-111-96-0	96-Rack		10 x 96
		2-121-70-0	Bag		5 x 1000
		2-121-96-0	96-Rack		10 x 96
 1-100 µl, clear Top-Line® Filter Tip	50.8 mm	2-112-70-0	Bag	■	5 x 1000
		2-112-96-0	96-Rack		10 x 96
		2-122-70-0	Bag		5 x 1000
		2-122-96-0	96-Rack		10 x 96
 1-200 µl, clear Top-Line® Filter Tip	50.8 mm	2-113-70-0	Bag	■	5 x 1000
		2-113-96-0	96-Rack		10 x 96
		2-123-70-0	Bag		5 x 1000
		2-123-96-0	96-Rack		10 x 96
 30 µl, clear Top-Line® Gelloader Filter Tip	67.0 mm	2-130-96-0	96-Rack	■	10 x 96
		2-131-96-0	96-Rack		10 x 96
 100 µl, clear Top-Line® Gelloader Filter Tip	67.0 mm	2-132-96-0	96-Rack	■	10 x 96
		2-133-96-0	96-Rack		10 x 96

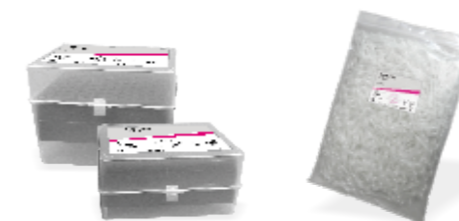
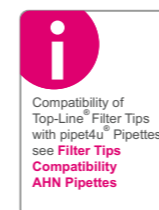


# Top-Line® Filter Tips

Specifications | Order Information

Innovation for Science

Filter Tip	Tip Length	Cat. No.	Pack Type	Sterilized	Sales Unit
 5-300 µl, clear Top-Line® Filter Tip	55.0 mm	2-115-70-0	Bag	■	5 x 1000
		2-115-96-0	96-Rack		10 x 96
		2-125-70-0	Bag		5 x 1000
		2-125-96-0	96-Rack		10 x 96
 100-1000 µl, short, clear blue Top-Line® Filter Tip	70.1 mm	2-209-06-2	60-Rack	■	10 x 60
		2-209-70-2	Bag		10 x 500
		2-210-06-2	60-Rack		10 x 60
		2-210-70-2	Bag		10 x 500
 100-1000 µl, long, clear Top-Line® Filter Tip	86.0 mm	2-201-70-0	Bag	■	10 x 500
		2-201-96-0	96-Rack		10 x 96
		2-211-70-0	Bag		10 x 500
		2-211-96-0	96-Rack		10 x 96



Filter Tips  
Specifications | Order Information

Filter Tips  
Specifications | Order Information

Information: correct at time of printing  
\*\* different tip design

Information: correct at time of printing

# Premium-Line® Tips | Filter Tips

## Features

### Low Retention



metal-free



- **Secure fit and simple ejection of tip**  
Optimized cone geometry with wide sealing zone
- **Quick and simple volume check**  
Graduation marks on tip
- **Precise pipetting without loss of sample**  
Conical tip outlet prevents drop formation at the outlet opening of tip
- **Elimination of risk of sample contamination**  
Tips manufactured from autoclavable, non-wettable, virgin polypropylene
- **Maintain sample integrity**  
Available as sterilized version (by beta irradiation)
- **Available in bags or rackboxes**



- **No sample contamination from filter**  
Use of virgin high quality hydrophobic polyethylene filters without additives
- **No pipette contamination**  
Restrains aerosols and liquids (vaporous, radioactive, biohazardous or corrosive samples) through micropore filter technology (MPS technology, filter pore size 8-10 µm)



- **Maximum sample recovery**  
**Minimal sample loss**  
**High-precision pipetting**  
Innovative Low Retention surface



#### Specifications Premium-Line® Tips | Filter Tips:

General requirements  
CE-marking certificate

Sterility certificate  
RoHS Compliance certificate  
Environmental Management certificate  
USP-Plastic Test, Class VI, certificate  
Conformity testing certificate  
GMP/GLP certificate

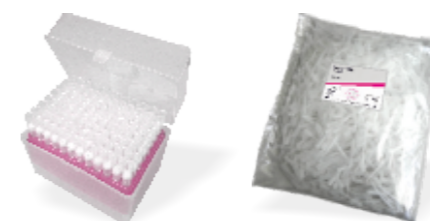
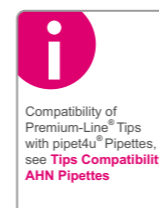
ISO Standard 8655  
EU-Directive 98/79/EG, competent authority code DE/CA90  
EN 552/ISO 11137 and DIN EN 556  
EU Directive 2002/95/EC  
ISO Standard 14000 and ISO Standard 14001  
ISO Standard 10993  
DIN Standard 12600  
WHO Technical Report Series 908, 37. Report, Geneva2003

# Premium-Line® Tips

## Specifications | Order Information










### Low Retention

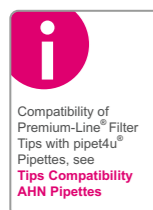
Tip	Tip Length	Cat. No.	Pack Type	Sterilized	Sales Unit
0.1-10 µl, clear Premium-Line® Tip	34.1 mm	4-000-60-0	Bag	■	2x1000
		4-000-81-0	Bag		20x1000
		4-000-96-0	96-Rack		10x96
		4-001-60-0	Bag		2x1000
		4-001-96-0	96-Rack		10x96
0.1-10 µl XL, clear Premium-Line® Tip	45.2 mm	4-060-60-0	Bag	■	2x1000
		4-060-81-0	Bag		20x1000
		4-060-96-0	96-Rack		10x96
		4-061-60-0	Bag		2x1000
4-061-96-0	96-Rack	10x96			
0.5-10/20 µl, clear Premium-Line® Tip	45.7 mm	4-050-60-0	Bag	■	2x1000
		4-050-81-0	Bag		20x1000
		4-050-96-0	96-Rack		10x96
		4-051-60-0	Bag		2x1000
4-051-96-0	96-Rack	10x96			
1-200 µl, clear Premium-Line® Tip	50.8 mm	4-110-60-0	Bag	■	2x1000
		4-110-81-0	Bag		20x1000
		4-110-96-0	96-Rack		10x96
		4-111-60-0	Bag		2x1000
4-111-96-0	96-Rack	10x96			
100-1000 µl, long, clear Premium-Line® Tip	86.0 mm	4-200-50-0	Bag	■	2x500
		4-200-80-0	Bag		20x500
		4-200-96-0	96-Rack		10x96
		4-201-50-0	Bag		2x500
		4-201-96-0	96-Rack		10x96



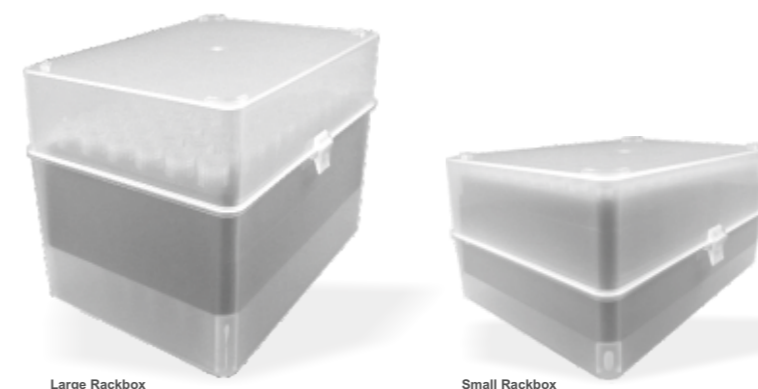
# Premium-Line® Filter Tips Specifications | Order Information

## Low Retention

Filter Tip	Tip Length	Cat. No.	Pack Type	Sterilized	Sales Unit
 0.1-10 µl, clear Premium-Line® Filter Tip	34.1 mm	5-001-70-0 5-001-96-0	Bag 96-Rack	■ ■	5 x 1000 10 x 96
 0.1-10 µl XL, clear Premium-Line® Filter Tip	45.2 mm	5-061-70-0 5-061-96-0	Bag 96-Rack	■ ■	5 x 1000 10 x 96
 0.5-20 µl, cristal Premium-Line® Filter Tip	45.7 mm	5-051-70-0 5-051-96-0	Bag 96-Rack	■ ■	5 x 1000 10 x 96
 1-20 µl, clear Premium-Line® Filter Tip	50.8 mm	5-114-70-0 5-114-96-0	Bag 96-Rack	■ ■	5 x 1000 10 x 96
 1-30 µl, clear Premium-Line® Filter Tip	50.8 mm	5-116-70-0 5-116-96-0	Bag 96-Rack	■ ■	5 x 1000 10 x 96
 1-50 µl, clear Premium-Line® Filter Tip	50.8 mm	5-111-70-0 5-111-96-0	Bag 96-Rack	■ ■	5 x 1000 10 x 96
 1-100 µl, clear Premium-Line® Filter Tip	50.8 mm	5-112-70-0 5-112-96-0	Bag 96-Rack	■ ■	5 x 1000 10 x 96
 1-200 µl, clear Premium-Line® Filter Tip	50.8 mm	5-113-70-0 5-113-96-0	Bag 96-Rack	■ ■	5 x 1000 10 x 96
 100-1000 µl, long, clear Premium-Line® Filter Tip	86.0 mm	5-201-70-0 5-201-96-0	Bag 96-Rack	■ ■	10 x 500 10 x 96



# Rackbox-System Features | Specifications | Order Information



Large Rackbox

Small Rackbox



Racks available in 8x12 format 6x10 format (1000 µl, short)

### Effortless and secure working

Easy opening and closing of rackbox with one hand

Strong rackbox closing system

Stackability of rackboxes for secure transportation and storage

### Universal fit

Racks are compatible with single channel and multi channel pipettes (9 mm spacing)

### Sterile handling

Autoclavability of rack and rackboxes

### Rackboxes available in small and large size, Racks in 8x12 format and 6x10 format

Rackbox	Colour	Cat. No.	Pack Type	Sterilized	Sales Unit
0.1 - 20 µl, 8x12	clear Box black Rack	4-500-00-0	Carton		1x10
200 µl, 8x12	clear Box black Rack	4-500-01-0	Carton		1x10
300 µl, 8x12	clear Box black Rack	4-501-00-0	Carton		1x10
1000 µl, long, 8x12	clear Box black Rack	4-502-00-0	Carton		1x10
1000 µl, short 6x10	clear Box black Rack	4-503-00-0	Carton		1x10



# PIPETTES



pipet4u® Performance Manual Pipettes 17-20



pipet4u® Revolution Electronic Pipettes 21-22



pipet4u® Pipette Controller 23-24

# pipet4u<sup>®</sup> Performance

## High Performance Manual Pipettes

### Features



#### Accurate and reliable pipetting

Reverse pipetting option for accurate and precise aspirating and dispensing of viscous liquids

Innovative soft grip prevents transfer of heat to internal components ensuring accurate pipette operation

Lock counter mechanism<sup>2</sup> prevents volume changes



#### Comfortable and effortless pipetting

Light weight pipette design

Ergonomic design for easy operation

Ergonomic grip shape

Ergonomic pipetting button for easy volume setting and low strain pipetting (minimizes RSI<sup>1</sup>)

#### Sterile handling

Fully autoclavable pipette

#### Easy and quick maintenance and adjustment

With the included tool

#### No loss of samples

Blow out system allows last drop dispensing

# pipet4u<sup>®</sup> Performance

## Single Channel fixed Volume Manual Pipettes

### Specifications | Order Information

Volume Range	Test Volume	Increments	Inaccuracy*	Imprecision**	Cat. No.
5 µl	5 µl	-	1.3 %	1.1 %	8-001-00-9
10 µl	10 µl	-	0.8 %	0.6 %	8-002-00-9
20 µl	20 µl	-	0.6 %	0.3 %	8-003-00-9
25 µl	25 µl	-	0.6 %	0.3 %	8-004-00-9
50 µl	50 µl	-	0.6 %	0.3 %	8-007-00-9
100 µl	100 µl	-	0.5 %	0.2 %	8-008-00-9
200 µl	200 µl	-	0.5 %	0.2 %	8-009-00-9
250 µl	250 µl	-	0.5 %	0.2 %	8-010-00-9
500 µl	500 µl	-	0.5 %	0.2 %	8-011-00-9
1000 µl	1000 µl	-	0.5 %	0.2 %	8-012-00-9
2000 µl	2000 µl	-	0.5 %	0.2 %	8-013-00-9
2500 µl	2500 µl	-	0.5 %	0.2 %	8-014-00-9
5000 µl	5000 µl	-	0.5 %	0.2 %	8-015-00-9
10000 µl***	10000 µl	-	0.4 %	0.2 %	8-016-00-9

\* Systematic error \*\* Random error \*\*\* Tip ejector function not available

#### Included Accessories

- Tool for calibration and disassembling
- O-rings (for 5000 µl | 10000 µl pipette)
- Sample bag with tips
- Grease
- Calibration report
- Instruction manual

#### pipet4u<sup>®</sup> Performance Manual Pipettes meet the following international standards:

International Organisation for Standardisation	ISO 8655, part 1-6
European Committee for Standardisation	CEN EN ISO 8655
German Institute for Standardisation	DIN 12650
Electrical and general safety in accordance with	IEC 61010-1
Electromagnetic compatibility in accordance with	IEC 61326-1
Marking and layout in accordance with	IEC 60073
Conformity testing in accordance with	DIN 12600
CE-Sign marked in accordance with	EU Directive 98/78 EG, Art. 10



pipet4u<sup>®</sup> Pipette Racks are available, see pipet4u<sup>®</sup> Accessoires  
Compatibility of pipet4u<sup>®</sup> Pipettes with Top-Line<sup>®</sup> Tips/Filter Tips, see Tips/Filter Tips Compatibility



<sup>1</sup> RSI - Repetitive Strain Injury  
<sup>2</sup> Equipment of variable Volume Manual Pipettes

# pipet4u® Performance Specifications | Order Information

## Single Channel variable Volume Manual Pipettes

Volume Range	Test Volume	Increments	Inaccuracy*	Imprecision**	Cat. No.
0.1 - 2.5 µl	0.25 µl	0.01 µl	12.0 %	6.0 %	8-100-00-9
	1.25 µl		3.0 %	3.0 %	
	2.5 µl		2.5 %	2.0 %	
0.5 - 10 µl	1 µl	0.1 µl	2.5 %	1.5 %	8-101-00-9
	5 µl		1.5 %	0.8 %	
	10 µl		1.0 %	0.4 %	
2 - 20 µl	2 µl	0.5 µl	2.5 %	1.5 %	8-102-00-9
	10 µl		1.2 %	0.6 %	
	20 µl		1.0 %	0.3 %	
5 - 50 µl	5 µl	0.5 µl	2.0 %	1.5 %	8-103-00-9
	25 µl		1.2 %	0.8 %	
	50 µl		1.0 %	0.3 %	
10 - 100 µl	10 µl	0.5 µl	2.0 %	1.5 %	8-104-00-9
	50 µl		1.0 %	0.3 %	
	100 µl		0.8 %	0.2 %	
20 - 200 µl	20 µl	1.0 µl	2.5 %	0.7 %	8-105-00-9
	100 µl		1.0 %	0.3 %	
	200 µl		0.6 %	0.2 %	
50 - 200 µl	50 µl	1.0 µl	1.0 %	0.4 %	8-105-01-9
	100 µl		1.0 %	0.3 %	
	200 µl		0.6 %	0.2 %	
100 - 1000 µl	100 µl	5.0 µl	2.0 %	0.6 %	8-106-00-9
	500 µl		0.9 %	0.2 %	
	1000 µl		0.6 %	0.2 %	
200 - 1000 µl	200 µl	5.0 µl	0.9 %	0.3 %	8-106-01-9
	500 µl		0.9 %	0.2 %	
	1000 µl		0.6 %	0.2 %	
500 - 5000 µl	500 µl	50.0 µl	1.9 %	0.7 %	8-107-00-9
	2500 µl		1.0 %	0.5 %	
	5000 µl		0.6 %	0.3 %	
2000 - 10000 µl***	2000 µl	100.0 µl	3.0 %	0.6 %	8-108-00-9
	5000 µl		1.2 %	0.3 %	
	10000 µl		0.6 %	0.2 %	

\* Systematic error \*\* Random error \*\*\* Tip ejector function not available

### Included Accessories

- Tool for calibration and disassembling
- O-rings (for 5000 µl | 10000 µl pipette)
- Sample bag with tips
- Grease
- Calibration report
- Instruction manual

### pipet4u® Performance Manual Pipettes meet the following international standards:

International Organisation for Standardisation  
European Committee for Standardisation  
German Institute for Standardisation  
Electrical and general safety in accordance with  
Electromagnetic compatibility in accordance with  
Marking and layout in accordance with  
Conformity testing in accordance with  
CE-Sign marked in accordance with

ISO 8655, part 1-6  
CEN EN ISO 8655  
DIN 12650  
IEC 61010-1  
IEC 61326-1  
IEC 60073  
DIN 12600  
EU Directive 98/78 EG, Art. 10



pipet4u® Pipette Racks are available, see pipet4u® Accessoires

Compatibility of pipet4u® Pipettes with Top-Line® Tips/Filter Tips, see Tips/Filter Tips Compatibility

**2**  
YEAR  
warranty



fully  
autoclavable  
121° C | 250° F  
1.05 bar | 15 psig (Pounds)  
15 min

# pipet4u® Performance Specifications | Order Information

## Multi Channel variable Volume Manual Pipettes

Volume Range	Test Volume	Increments	Inaccuracy*	Imprecision**	Cat. No.
0.5 - 10 µl	8 Channel 0.50 µl 5 µl 10 µl	0.1 µl	2.0 %	2.0 %	8-201-00-9
			1.6 %	1.6 %	
			1.5 %	1.5 %	
5 - 50 µl	8 Channel 5 µl 25 µl 50 µl	0.5 µl	2.0 %	2.0 %	8-202-00-9
			1.0 %	0.8 %	
			0.6 %	0.5 %	
30 - 300 µl	8 Channel 30 µl 150 µl 300 µl	1.0 µl	2.5 %	0.9 %	8-203-00-9
			1.2 %	0.5 %	
			0.6 %	0.4 %	
0.5 - 10 µl	12 Channel 1 µl 5 µl 10 µl	0.1 µl	4.0 %	4.0 %	8-401-00-9
			2.5 %	2.5 %	
			1.5 %	1.5 %	
5 - 50 µl	12 Channel 5 µl 25 µl 50 µl	0.5 µl	3.0 %	2.0 %	8-402-00-9
			1.5 %	1.0 %	
			1.0 %	0.7 %	
30 - 300 µl	12 Channel 30 µl 150 µl 300 µl	1.0 µl	1.5 %	0.75 %	8-403-00-9
			1.0 %	0.5 %	
			0.8 %	0.25 %	

\* Systematic error \*\* Random error

**AVAILABLE  
SOON**

pipet4u® Performance  
12 Channel Pipettes

### Included Accessories

- Tool for calibration and disassembling
- O-rings
- Sample bag with tips
- Grease
- Calibration report
- Instruction manual

### pipet4u® Performance Manual Pipettes meet the following international standards:

International Organisation for Standardisation  
European Committee for Standardisation  
German Institute for Standardisation  
Electrical and general safety in accordance with  
Electromagnetic compatibility in accordance with  
Marking and layout in accordance with  
Conformity testing in accordance with  
CE-Sign marked in accordance with

ISO 8655, part 1-6  
CEN EN ISO 8655  
DIN 12650  
IEC 61010-1  
IEC 61326-1  
IEC 60073  
DIN 12600  
EU Directive 98/78 EG, Art. 10



pipet4u® Pipette Racks are available, see pipet4u® Accessoires

Compatibility of pipet4u® Pipettes with Top-Line® Tips/Filter Tips, see Tips/Filter Tips Compatibility

**2**  
YEAR  
warranty

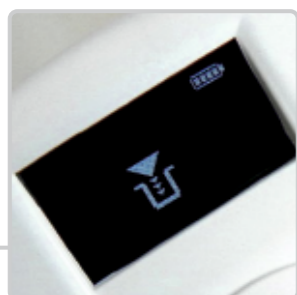


fully  
autoclavable  
121° C | 250° F  
1.05 bar | 15 psig (Pounds)  
15 min

# pipet4u<sup>®</sup> Revolution

## Features

High Performance Electronic Pipettes



### Comfortable and effortless pipetting

Ultra bright OLED display for extra clear visibility

Ergonomic grip shape

Ergonomic design for easy operation

Ergonomic pipetting button for easy operation setting and low strain pipetting (minimizes RSI<sup>3</sup>)



- **Easy handling with one button**  
Control of all operating programs with the patented 1 button system
- **6 different operating programs:**  
Pipetting Mode  
Dispensing Mode  
Reverse Pipetting Mode  
Mixing Mode  
Auto Calibration Mode  
Speed Control
- **Accurate and reliable pipetting**  
SCS-System<sup>2</sup> controls piston movement for highest precision and accuracy
- **Easy self-calibration of pipette**  
ESM-System<sup>1</sup> allows user calibration of pipette, e.g. when using different sample viscosities

<sup>1</sup> ESM-System - Easy Selfcalibration Management System  
It is a selfcalibration system where the user can calibrate his pipette for solutions of different viscosity. The system also controls permanently all functions and indicates all errors.  
<sup>2</sup> SCS-System - Speed Control System  
<sup>3</sup> RSI - Repetitive Strain Injury

# pipet4u<sup>®</sup> Revolution

## Specifications | Order Information

Single | Multi Channel variable Volume Electronic Pipettes

Volume Range	Test Volume	Increments	Inaccuracy *	Imprecision **	Cat. No.
0.2 - 10 µl	0.50 µl	0.01 µl	5.0 %	3.0 %	8-500-00-0
	5 µl		2.5 %	1.5 %	
	10 µl		0.9 %	0.5 %	
5 - 100 µl	5 µl	0.1 µl	2.5 %	1.5 %	8-501-00-0
	50 µl		0.9 %	0.3 %	
	100 µl		0.4 %	0.5 %	
10 - 200 µl	10 µl	0.1 µl	0.9 %	0.5 %	8-502-00-0
	100 µl		0.4 %	0.5 %	
	200 µl		0.3 %	0.1 %	
50 - 1000 µl	100 µl	1.0 µl	0.4 %	0.5 %	8-503-00-0
	500 µl		0.4 %	0.2 %	
	1000 µl		0.3 %	0.1 %	
100 - 5000 µl	500 µl	5.0 µl	0.4 %	0.5 %	8-505-00-0
	2500 µl		0.1 %	0.1 %	
	5000 µl		0.1 %	0.1 %	
0.2 - 10 µl	0.5 µl	0.01 µl	5.0 %	3.0 %	8-520-00-0
	5 µl		2.5 %	1.5 %	
	10 µl		0.9 %	0.5 %	
2.5 - 50 µl	5 µl	0.10 µl	2.5 %	1.5 %	8-521-00-0
	25 µl		0.9 %	0.3 %	
	50 µl		0.4 %	0.5 %	
15 - 300 µl	20 µl	0.50 µl	0.9 %	0.5 %	8-522-00-0
	150 µl		0.4 %	0.3 %	
	300 µl		0.3 %	0.1 %	
0.2 - 10 µl	0.5 µl	0.01 µl	5.0 %	3.0 %	8-530-00-0
	5 µl		2.5 %	1.5 %	
	10 µl		0.9 %	0.5 %	
2.5 - 50 µl	5 µl	0.10 µl	2.5 %	1.5 %	8-531-00-0
	25 µl		0.9 %	0.3 %	
	50 µl		0.4 %	0.5 %	
15 - 300 µl	20 µl	0.50 µl	0.9 %	0.5 %	8-532-00-0
	150 µl		0.4 %	0.3 %	
	300 µl		0.3 %	0.1 %	

\* Systematic error \*\* Random error

**AVAILABLE SOON**

pipet4u<sup>®</sup> Revolution  
Electronic Multi Channel  
Pipettes

- Included Accessories**
- Battery (Li-Ion-battery)
  - Screw driver
  - Screw for hand grip
  - Charger (available with EU | UK | US Charger)
  - Sample bag with tips
  - Grease
  - Calibration report
  - Instruction manual

### pipet4u<sup>®</sup> Revolution Electronic Pipettes meet the following international standards:

International Organisation for Standardisation	ISO 8655, part 1-6
European Committee for Standardisation	CEN EN ISO 8655
German Institute for Standardisation	DIN 12650
Electrical and general safety in accordance with	IEC 61010-1
Electromagnetic compatibility in accordance with	IEC 61326-1
Marking and layout in accordance with	IEC 60073
Conformity testing in accordance with	DIN 12600
CE-Sign marked in accordance with	EU Directive 98/78 EG, Art. 10

**i**  
Compatibility of pipet4u<sup>®</sup> Pipettes with Top-Line<sup>®</sup> Tips/Filter Tips, see Tips/Filter Tips Compatibility



# pipet4u<sup>®</sup> Oasis

## Pipette Controller

### Features



**Secure handling**  
Replacable membrane filter to minimize risk of contamination

**Pipetting speed control**  
Adapt pipetting speed depending on sample viscosity with 3 selectable speeds

- Comfortable and effortless pipetting**
  - Light weight pipette design
  - Smooth push buttons for precise pipetting control
  - Ergonomic design for easy operation
  - Cordless working (8 hours with no need to recharge)
  - Silent high power motor

# pipet4u<sup>®</sup> Oasis



## Pipette Controller

### Specifications | Order Information

Volume Range	Description	Sales Unit	Cat. No.
0.1 - 100 ml	pipet4u <sup>®</sup> Oasis Pipette Controller	Carton/1 Oasis	8-300-00-9

- Included Accessories**
- 2 x NiMH batteries
  - Desktop stand
  - Wall mount bracket
  - Charger
  - 2 x PTFE membrane filter
  - Instruction manual




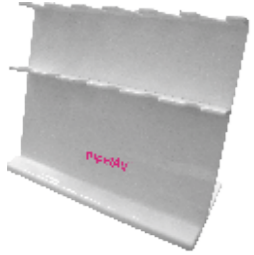
### Spare Parts pipet4u<sup>®</sup> Oasis Pipette Controller

Pore Size	Description	Sales Unit	Cat. No.
0.20 µm	pipet4u <sup>®</sup> Oasis PTFE membrane filters	Carton/5 filters	8-300-03-0
0.45 µm	pipet4u <sup>®</sup> Oasis PTFE membrane filters	Carton/5 filters	8-300-04-0
	pipet4u <sup>®</sup> Oasis silicone adapter	Carton/1 adapter	8-300-01-0
	pipet4u <sup>®</sup> Oasis pipette cone	Carton/1 cone	8-300-02-8



# pipet4u<sup>®</sup> Accessoires Specifications | Order Information

for Single Channel and Multi Channel Manual Pipettes

Stand	Description	Sales Unit	Cat. No.
	pipet4u <sup>®</sup> single rack for 8 channel pipette, black	Carton/1 rack	8-130-02-7
	pipet4u <sup>®</sup> single rack for 8 channel pipette, white	Carton/1 rack	8-130-02-9
	pipet4u <sup>®</sup> rack for 4 single channel pipettes, white	Carton/1 rack	8-130-00-9
	pipet4u <sup>®</sup> rack for 6 single channel pipettes, white	Carton/1 rack	8-131-00-9

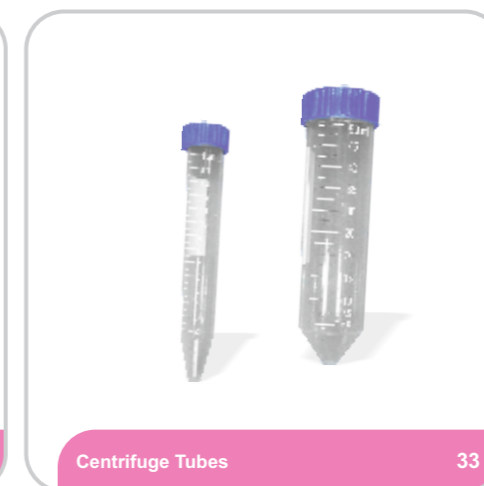
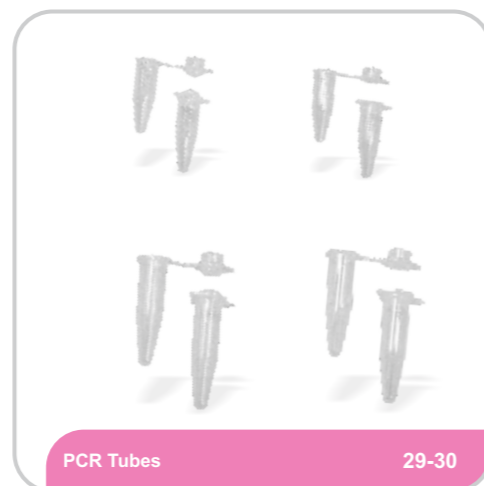
Pipette Accessories  
Specifications | Order Information

**2**  
YEAR  
warranty

Information correct at time of printing.

Liquid Handling

# TUBES

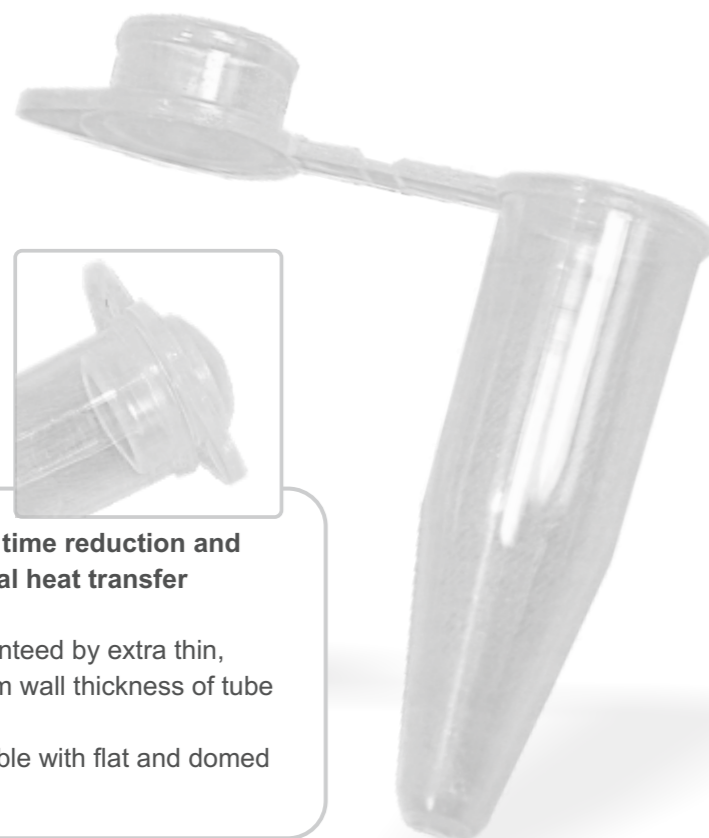


# PCR Tubes

## Features



metal-free



### • Cycle time reduction and optimal heat transfer

Guaranteed by extra thin, uniform wall thickness of tube

Available with flat and domed cap

### • Effortless and secure working

Ergonomic cap design for easy and secure opening and closing of tube with one hand

### • Elimination of risk of sample contamination and loss of sample

High quality raw material (polymer) meets standards of purity and is highly resistant to extreme mechanical strain and demonstrates excellent chemical resistance

### • Maintain sample integrity

Available as sterilized version (by beta irradiation)

### • Optical measurement and control

Highly transparent tube

### • Sterile handling

Fully autoclavable tube

# PCR Tubes

## Specifications | Order Information

0.2 ml | 0.5 ml flat and domed cap

PCR Tube	Colour	Cat. No.	Pack Type	Sterilized	Sales Unit
0.2 ml, flat cap PCR Tube	clear	3-010-50-0	Bag	■	1 x 1000
		3-010-80-0	Bag		10 x 1000
		3-011-50-0	Bag		1 x 1000
	yellow	3-010-50-1 3-010-80-1	Bag Bag		1 x 1000 10 x 1000
blue	3-010-50-2 3-010-80-2	Bag Bag		1 x 1000 10 x 1000	
magenta	3-010-50-8 3-010-80-8	Bag Bag		1 x 1000 10 x 1000	
0.2 ml, domed cap PCR Tube	clear	3-020-50-0	Bag	■	1 x 1000
		3-020-80-0	Bag		10 x 1000
		3-021-50-0	Bag		1 x 1000
	yellow	3-020-50-1 3-020-80-1	Bag Bag		1 x 1000 10 x 1000
blue	3-020-50-2 3-020-80-2	Bag Bag		1 x 1000 10 x 1000	
magenta	3-020-50-8 3-020-80-8	Bag Bag		1 x 1000 10 x 1000	
0.5 ml, flat cap PCR Tube	clear	3-110-50-0	Bag	■	1 x 1000
		3-110-80-0	Bag		10 x 1000
		3-111-50-0	Bag		1 x 1000
	yellow	3-110-50-1 3-110-80-1	Bag Bag		1 x 1000 10 x 1000
blue	3-110-50-2 3-110-80-2	Bag Bag		1 x 1000 10 x 1000	
magenta	3-110-50-8 3-110-80-8	Bag Bag		1 x 1000 10 x 1000	
0.5 ml, domed cap PCR Tube	clear	3-120-50-0	Bag	■	1 x 1000
		3-120-80-0	Bag		10 x 1000
		3-121-50-0	Bag		1 x 1000
	yellow	3-120-50-1 3-120-80-1	Bag Bag		1 x 1000 10 x 1000
blue	3-120-50-2 3-120-80-2	Bag Bag		1 x 1000 10 x 1000	
magenta	3-120-50-8 3-120-80-8	Bag Bag		1 x 1000 10 x 1000	



metal-free

autoclavable  
(opened)  
121° C | 250° F  
1.05 bar | 15 psig (Pounds)  
20 min



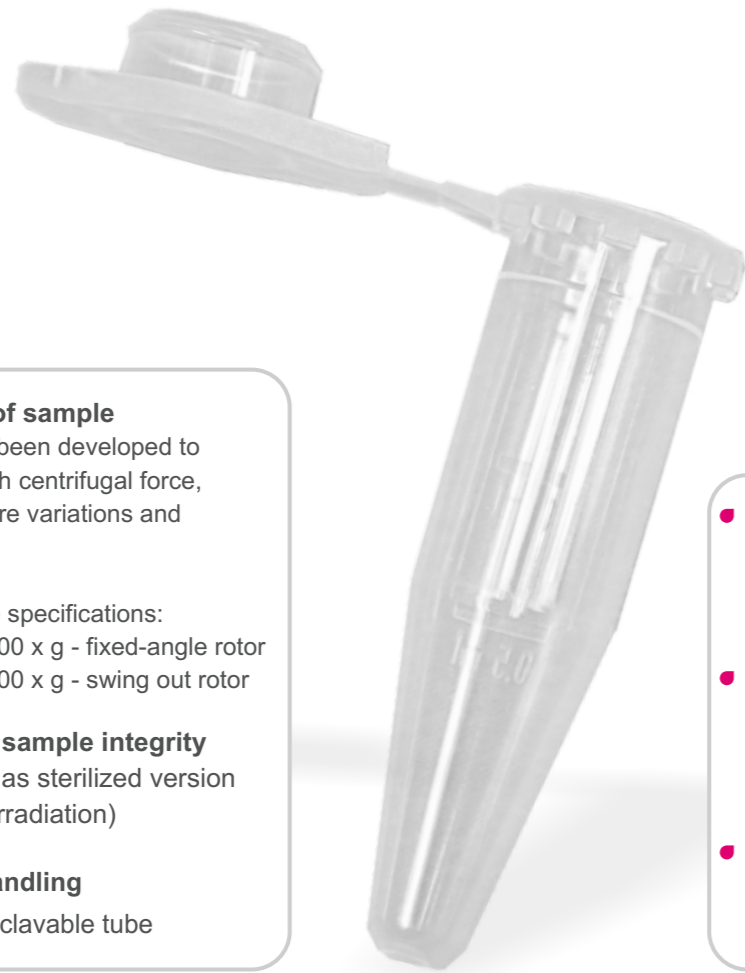


# Micro Tubes

## Features



metal-free



- No loss of sample**

Tube has been developed to resist high centrifugal force, temperature variations and chemicals

Centrifuge specifications:  
up to 25.000 x g - fixed-angle rotor  
up to 70.000 x g - swing out rotor

- Maintain sample integrity**

Available as sterilized version (by beta irradiation)

- Sterile handling**

Fully autoclavable tube

- Effortless and secure working**

Ergonomic cap design for easy and secure opening and closing of tube with one hand

- Easy sample identification**

Frosted tube cap and surface on body of tube for labeling option

- Quick and simple volume check**

Graduation marks on tube (1.5 ml and 2.0 ml)

# Micro Tubes

## Specifications | Order Information

0.5 ml | 1.5 ml | 2.0 ml

Micro Tube	Colour	Cat. No.	Pack Type	Sterilized	Sales Unit
<b>0.5 ml, Micro Tube</b>	clear	3-115-50-0	Bag	■	1 x 1000
		3-115-80-0	Bag		10 x 1000
		3-116-50-0	Bag		1 x 1000
yellow	3-115-50-1	3-115-80-1	Bag		1 x 1000
			Bag		10 x 1000
blue	3-115-50-2	3-115-80-2	Bag		1 x 1000
			Bag		10 x 1000
magenta	3-115-50-8	3-115-80-8	Bag		1 x 1000
			Bag		10 x 1000
<b>1.5 ml, Micro Tube</b>	clear	3-205-50-0	Bag	■	1 x 1000
		3-205-85-0	Bag		8 x 1000
		3-207-50-0	Bag		1 x 1000
yellow	3-205-50-1	3-205-85-1	Bag		1 x 1000
			Bag		8 x 1000
blue	3-205-50-2	3-205-85-2	Bag		1 x 1000
			Bag		8 x 1000
magenta	3-205-50-8	3-205-85-8	Bag		1 x 1000
			Bag		8 x 1000
black	3-205-50-7	3-205-85-7	Bag		1 x 1000
			Bag		8 x 1000
<b>2.0 ml, Micro Tube</b>	clear	3-204-50-0	Bag	■	1 x 1000
		3-204-85-0	Bag		8 x 1000
		3-208-50-0	Bag		1 x 1000
yellow	3-204-50-1	3-204-85-1	Bag		1 x 1000
			Bag		8 x 1000
blue	3-204-50-2	3-204-85-2	Bag		1 x 1000
			Bag		8 x 1000
magenta	3-204-50-8	3-204-85-8	Bag		1 x 1000
			Bag		8 x 1000

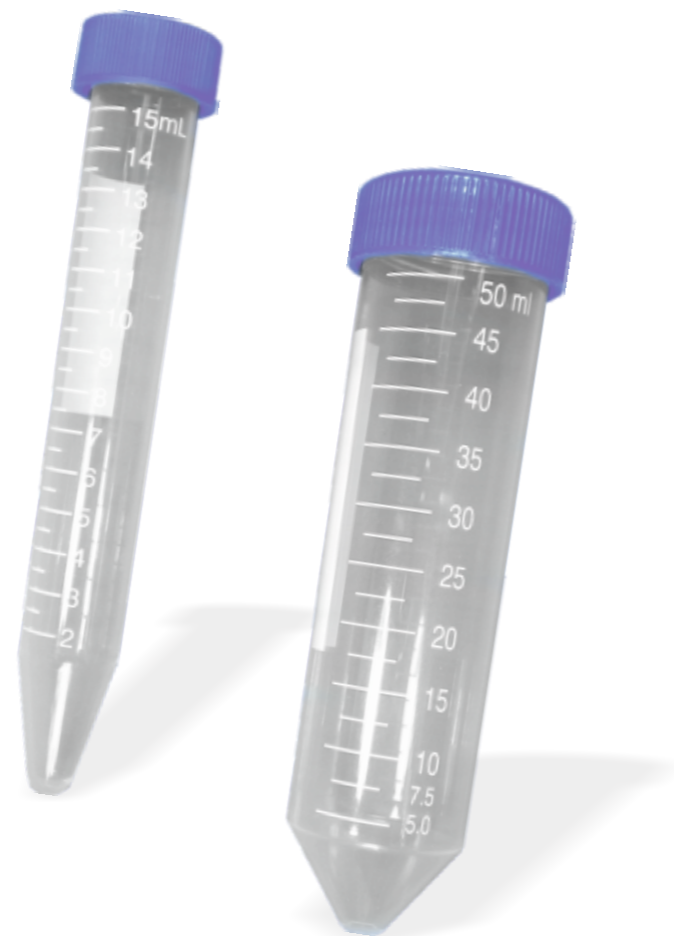


metal-free





- **Conical bottom design with screw cap**
  - **Easy sample identification**  
Large writing surface on tube
  - **Quick and simple volume check**  
Graduation marks on tube
  - **No loss of sample**  
Tube has been developed to resist high centrifugal force and temperature variations
- Centrifuge specifications:  
up to 12.000 x g - 15 ml Centrifuge Tube  
up to 9.500 x g - 50 ml Centrifuge Tube
- **Secure long term storage and preservation**  
Safe usage in a temperature range from - 80 °C to + 121 °C
  - **Sterile handling**  
Fully autoclavable tube



Centrifuge Tube	Tube Height	Cat. No.	Pack Type	Sterilized	Sales Unit
15 ml, Centrifuge Tube, clear, blue screw cap	121.0 mm	3-252-25-0	Bag		1x25
50 ml, Centrifuge Tube, clear, blue screw cap	118.0 mm	3-253-25-0	Bag		1x25

1.8 ml



- **Easy sample identification**  
Unique barcode printing directly on tube  
Large writing surface on tube



- **Secure long term storage and preservation**  
Tube can be stored to -196 °C
- **No loss of sample**  
Tested to specific pressure to guarantee no leaking from tube



- **No contamination during storage**  
O-ring injected directly into cap to minimize risk of leaking
- **Quick and simple volume check**  
Clear printed graduation marks
- **Preserved viability of samples**  
Manufactured from proven non-toxic materials
- **Sterile handling**  
Autoclavable tube
- **Maintain sample integrity**  
Sterilized by beta irradiation

Cryo Tube	Tube Height	Cat. No.	Pack Type	Sterilized	Sales Unit
1.8 ml, Cryo Tube, clear	44.5 mm	3-251-49-0	Bag	■	10 x 50
		3-251-10-0	Bag	■	2 x 50
self stand external thread barcode					

Accessories	Colour	Cat. No.	Pack Type	Sterilized	Sales Unit
<b>Capdiscs</b> colour coding of samples snap into screw-top cap	white	3-252-10-0	Bag		1 x 100
	yellow	3-252-50-0	Bag		1 x 1000
	light blue	3-252-10-1	Bag		1 x 100
	red	3-252-50-1	Bag		1 x 1000
	green	3-252-10-2	Bag		1 x 100
	magenta	3-252-50-2	Bag		1 x 1000
	red	3-252-10-3	Bag		1 x 100
	green	3-252-50-3	Bag		1 x 1000
	yellow	3-252-10-4	Bag		1 x 100
	white	3-252-50-4	Bag		1 x 1000

# Cryo Box

81-place

Features | Specifications | Order Information

- Effortless and secure working**

Easy opening and closing of box with one hand

Protection of the samples

- Secure long term storage and preservation**

Box can be stored between -130 °C and + 130 °C

- Secure transportation and storage**

Stackability of box

- Universal fit**

Suitable for all standard Cryo Tubes

- Sterile handling**

Autoclavable box

- Storage of light sensitive samples**

Available with bottom and lid in black



- Easy sample identification**  
 Alphanumeric coding of box

autoclavable  
(opened)  
 121° C | 250° F  
 1.05 bar | 15 psig (Pounds)  
 20 min

Cryo Box	Colour	Cat. No.	Pack Type	Sterilized	Sales Unit
<b>81-place Cryo- and Storage Box</b>	black	3-630-05-7	Bag		Bag/ 5 Boxes
		3-630-99-7	Bag		Bag/ 40 Boxes
<b>81-place Cryo- and Storage Box</b>	magenta	3-630-05-8	Bag		Bag/ 5 Boxes
		3-630-99-8	Bag		Bag/ 40 Boxes

external dimensions: 140 mm (W) x 140 mm (D) x 60 mm (H)  
 9 x 9 matrix, alphanumeric code  
 light protection

external dimensions: 140 x 140 x 60 mm  
 9 x 9 matrix, alphanumeric code

Liquid Handling

FILTRATION | ULTRA FILTRATION | DNA PURIFICATION



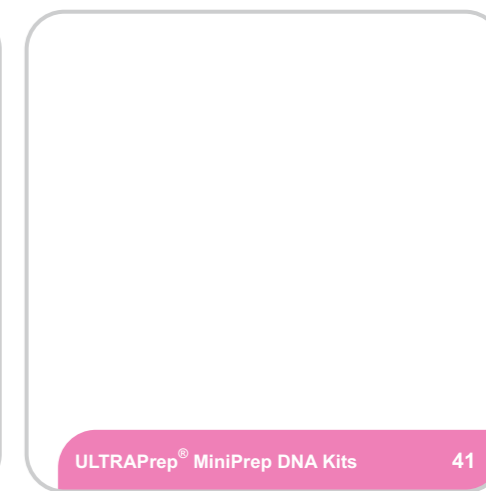
Mini Spin Column Systems

39



Filtration System

40



ULTRAPrep<sup>®</sup> MiniPrep DNA Kits

41

# Mini Spin Column Systems

Features | Specifications | Order Information



## CUSTOMISED SOLUTIONS FOR

FILTRATION  
ULTRA FILTRATION  
DNA | RNA PURIFICATION

- Developed for the use in purification, isolation and separation of biomolecules, particularly DNA/RNA
- Filter tubes can be delivered with various membrane filters depending on customer specific applications\*
- Available with 1.5 ml or 2.0 ml receiver tubes

**i** \* For further information or product specific inquiries contact us [info@ahn-bio.de](mailto:info@ahn-bio.de)



**Mini Spin Column**  
round bottom  
without lid



**Mini Spin Column**  
straight bottom  
with lid

Spin Column Single Parts without filter	Cat. No.	Pack Type	Sterilized	Sales Unit
0.8 ml, Spin Column Filter Tube, clear	3-330-50-0	Bag		1x1000
0.8 ml, Spin Column Filter Tube, clear, with filtering	3-331-50-0	Bag		1x1000
0.8 ml, Spin Column Filter Tube, clear, with cap	3-336-50-0	Bag		1x1000
1.5 ml, Receiver Tube, clear	3-200-50-0	Bag		1x1000
	3-200-80-0	Bag		10x1000
2.0 ml, Receiver Tube, clear	3-202-50-0	Bag		1x1000
	3-202-80-0	Bag		10x1000

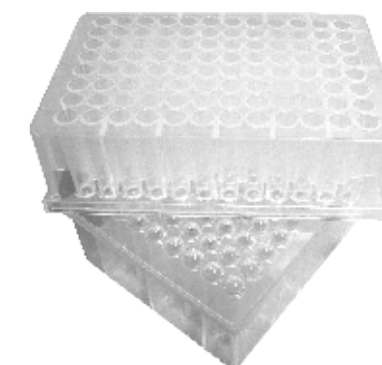
# Filtration System

Features | Specifications | Order Information



- Elimination of risk of sample contamination**  
Manufactured from absolutely clear high-quality virgin polystyrene
- U-bottom design with 1.0 ml capacity perfectly fits together with the most robotic systems in SBS-Standard
- Available in 8x12 matrix with 96 individual wells

Deep Well Microplate



- Elimination of risk of sample contamination**  
Manufactured from absolutely clear high-quality virgin polystyrene
- Available in 8x12 matrix with 96 individual drip directors in accordance with SBS-Standard
- Microfilterplate can be delivered with standard or customised\* filters depending on customer specific applications

Microfilterplate

**i** \* For further product information contact us [info@ahn-bio.de](mailto:info@ahn-bio.de)

- Elimination of risk of sample contamination**  
Manufactured from high-quality clear acrylic for medical applications
- Material of individual components:**  
Annealed, transparent acrylic  
Connection sleeve - PTFE  
Rubber seal - synthetic caoutchouc
- Designed for all usual filterplates according to SBS standard

Vacuum Manifold



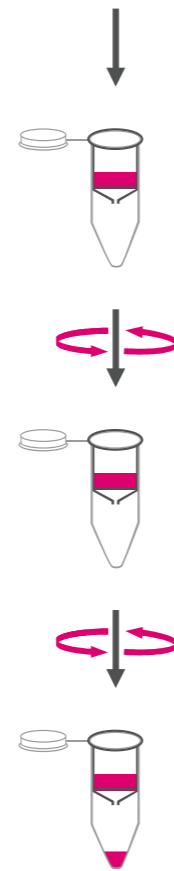
Filtration System	Cat. No.	Pack Type	Sterilized	Sales Unit
1.0 ml, Deep Well Microplate, 96 Wells, SBS, clear	3-211-25-0	Carton		1 Carton/ 25 Plates
Vacuum Manifold, manual, clear bottom part - height 50 mm upper part - height 20 mm spacer - height 22 mm	3-401-01-0	Carton		1 Carton/ 1 Manifold

# ULTRAPrep® MiniPrep DNA Kits

Features | Specifications | Order Information



- All ULTRAPrep® MiniPrep DNA Kits are complete kits ready for use
- ULTRAPrep® MiniPrep DNA Kits includes: handbook, buffer, reagents, receiver tubes, micro tubes and special designed high-quality spin columns



## ULTRAPrep® DNA purification Principle

- Lysis of starting material
- Transfer of lysate in the spin column and binding of DNA to the specially designed ULTRAPrep® spin column membrane
- Washing step: impurities are efficiently removed
- Elution of the DNA using elution
- Buffer or deionised water
- Pure DNA in small volume

## ULTRAPrep® MiniPrep DNA Kits

### ULTRAPrep® Plasmid MiniPrep Kit

Cat. No.	Pack Type	Sterilized	Sales Unit
6-001-00-0	Carton		Carton/4
6-001-01-0	Carton		Carton/50
6-001-02-0	Carton		Carton/250

### ULTRAPrep® Agarose Gel Extraction MiniPrep Kit

Cat. No.	Pack Type	Sterilized	Sales Unit
6-005-00-0	Carton		Carton/4
6-005-01-0	Carton		Carton/50
6-005-02-0	Carton		Carton/250

### ULTRAPrep® PCR MiniPrep Kit

Cat. No.	Pack Type	Sterilized	Sales Unit
6-006-00-0	Carton		Carton/4
6-006-01-0	Carton		Carton/50
6-006-02-0	Carton		Carton/250

### ULTRAPrep® Genomic DNA Cell&Blood MiniPrep Kit - whole blood

Cat. No.	Pack Type	Sterilized	Sales Unit
6-002-00-0	Carton		Carton/4
6-002-01-0	Carton		Carton/50
6-002-02-0	Carton		Carton/250

### ULTRAPrep® Genomic DNA Tissue MiniPrep Kit - incl. mouse tail

Cat. No.	Pack Type	Sterilized	Sales Unit
6-003-00-0	Carton		Carton/4
6-003-01-0	Carton		Carton/50
6-003-02-0	Carton		Carton/250

### ULTRAPrep® Genomic DNA BAC MiniPrep Kit - gram +/-

Cat. No.	Pack Type	Sterilized	Sales Unit
6-007-00-0	Carton		Carton/4
6-007-01-0	Carton		Carton/50
6-007-02-0	Carton		Carton/250

### ULTRAPrep® Genomic DNA Food MiniPrep Kit - food & feed

Cat. No.	Pack Type	Sterilized	Sales Unit
6-008-00-0	Carton		Carton/4
6-008-01-0	Carton		Carton/50
6-008-02-0	Carton		Carton/250

### ULTRAPrep® Genomic DNA Funghi MiniPrep Kit - funghi & yeasts

Cat. No.	Pack Type	Sterilized	Sales Unit
6-011-00-0	Carton		Carton/4
6-011-01-0	Carton		Carton/50
6-011-02-0	Carton		Carton/250

### ULTRAPrep® Genomic DNA Plant MiniPrep Kit - plants & soil

Cat. No.	Pack Type	Sterilized	Sales Unit
6-009-00-0	Carton		Carton/4
6-009-01-0	Carton		Carton/50
6-009-02-0	Carton		Carton/250

## 1. General

All deliveries and services are based on the following Terms and Conditions. Deviating conditions issued by the buyer are not binding, even if they are not explicitly contradicted. The buyer accepts the General Terms and Conditions of the AHN Biotechnologie GmbH as legally binding by order placement or/and acceptance of the goods. In case of entrepreneurs, this also applies to pending and all further deliveries and services. The current issue of the General Terms and Conditions of the AHN Biotechnologie GmbH shall be valid as from 01 January 2013.

## 2. Offers and Orders

Prepared offers are always not binding. If the offer has been accepted by the orderer, the terms of sale shall be considered as accepted in their entirety. AHN Biotechnologie GmbH shall immediately respond to received offers. If the AHN Biotechnologie GmbH does not immediately oppose received offers, the offer will be seen as accepted. Therefore, deviating terms of sale and delivery issued by the orderer shall not be binding for the AHN Biotechnologie GmbH. Orders as well as any verbal side agreements require written confirmation. The exceptions to this are subsequently made verbal agreements.

## 3. Prices

The final calculation will be carried out on the basis of the prices applicable on the date of the delivery plus VAT. In this respect, the quotations, provided in the offer and the confirmation, are not binding. Price changes are allowed when more than four months are between the conclusion of the contract and the agreed date of delivery. In case, wages, material costs, or the market-related cost prices increase after that period and before the completion date of the delivery, the AHN Biotechnologie GmbH shall be entitled to reasonably increase the price owing to the increase in costs. The orderer is only entitled to withdraw when the increase of the price does not only insignificantly exceed the increase of the general living costs within the period of order and delivery. If the orderer is a businessman, a corporate body under public law, or a special fund under public law, the price changes will be possible according to the before mentioned regulations provided that more than six weeks are between the conclusion of the contract and the agreed date of delivery. The prices shall apply, unless otherwise agreed, ex-works, excluding freight, custom duties, insurance and packaging. In case of delivery values below 250.00 euros, a processing charge of 25.00 euros will be charged. If unexpected changes of the goods and/or of the incidental expenses of the goods occur after the acceptance of a contract that make the fulfilment of the contract unacceptable, the contract shall be adapted to the changed conditions. The contract adaptation and the Vendor's possibility of cancellation must be reasonable for the Buyer. If no agreement will be achieved thereby, the AHN Biotechnologie GmbH will be released from the contractual obligation without the Buyer's possibility to make compensation or liability claims. The exceptions to this are compensation or liability claims due to injury to life, body, or health with intent and gross fault.

## 4. Delivery and Shipment

The delivery is ex-works. In case of contracts and with deliveries to entrepreneurs, the goods are generally delivered on account and at the Buyer's risk. The Buyer also bears the risk if the freight is prepaid. If requested, we are willing to cover transport insurances only by invoicing the insurance rate and do not accept assume the obligation to obtain insurance. The AHN Biotechnologie GmbH is entitled to name itself as beneficiary. The vendor shall not be responsible for delays in delivery or services due to force majeure and due to events which considerably complicate the delivery or indeed render it impossible - this includes in particular strikes, lockouts, official directives etc. - also when these events occur at the sites of the vendor's suppliers or their subcontractors - even in case the vendor is bound by agreed terms and dates. They shall entitle the vendor to defer the deliveries or services for the period of hindrance plus an appropriate start-up time, and completely or in part, to withdraw from the contract due to unfulfilled terms of contract. The user will be entitled to withdraw if the performance is not available. The user explicitly undertakes to inform the contractual party immediately about the non-availability and to reimburse the counter-performance. Immediately after the completion or if the goods are ready for delivery, the orderer shall take over the goods. In case of default in taking delivery, the costs and the risk of storage shall pass to the orderer. The same applies to closing of railway lines and other transport possibilities that make the shipment impossible.

## 5. Date of delivery

The delivery time stated in the order confirmation is an approximate date and is determined under consideration of the known facts. If these facts change until the end of delivery period through no fault of our own, or other events which cannot be accounted for by us obstruct the delivery in due time, the delivery deadline will be extended reasonably. Delivery delays due to operating disruptions, regulatory actions or force majeure cause a reasonable extension of the delivery deadline. Force majeure is also to be understood to include industrial action including strikes and legitimate lockouts at the AHN Biotechnologie GmbH or our subcontractors' sites. In this case, our customers' right to claim for damages shall be excluded. With this, partial deliveries shall be eligible provided that the reasonable minimum quantity is not undercut.

## 6. Payment

The purchase price is payable net (for entrepreneurs) or gross (for consumers) on delivery of goods if not otherwise agreed. If the period of payment is exceeded, the AHN Biotechnologie GmbH shall be entitled to charge interest counted from the due date which refers to the value of the rate that we had to pay for the used bank loan, at least, however, of 5 % above the current bank rate of the Deutschen Bundesbank and to refuse the further fulfilment of the contract. Expenses for debt recovery and reminding shall be on the buyer's account. With this, payments shall be paid directly. The buyer is not allowed to set off any payments, insofar not undisputed or legally effective claims, or counterclaims which are ready for a decision and counterclaims arising

from the synallagmatic relation are affected.

## 7. Reservation of ownership

Until the full payment of the delivery and the regulation of all accounts payable from the business relation including interest, expenses as well as until the coverage of possible current account balance, AHN Biotechnologie GmbH reserves the property right for the delivered goods as well as in the commercial legal relations for the goods that have been manufactured using our goods. In this case, the goods will be reclaimed from the buyer without setting a final deadline or a letter of resignation if the Buyer does not meet its obligations despite of dunning notice. In the commercial legal relations, with this, the property includes the products that are produced by processing of the goods subject to retention of title or their mixtures to their full value. If the property right of third parties in the goods that are processed or mixed remains in force, we shall acquire co-property (§§ 947, 948 BGB) proportional to the invoice values of the goods to be processed. The buyer is obliged to keep the goods that are subject to retention of title safe and free of charge. As long as the buyer duly fulfils its liabilities against the AHN Biotechnologie GmbH, it shall be revocably entitled to have the goods that are subject to retention of title at its disposal in an ordinary business routine.

It shall not be authorized to pledging and assignment as security or other encumbrances. If the buyer is an entrepreneur, with this, it already assigns its claims from the resale of the goods owned or partially owned by the AHN Biotechnologie GmbH (§ 947 subparagraph 1, § 948 BGB) to the AHN Biotechnologie GmbH as a precaution. If the settlement of the claims is at risk, the buyer has to inform its customers about the assignment on request and has to pass all required information and documents to the AHN Biotechnologie GmbH. The buyer must immediately report about third parties' access to the goods that are subject to retention of title and assigned claims.

## 8. Notifications of defects, guarantee

The buyer is explicitly responsible for application, use, and processing of the ordered goods. In the commercial legal relations, the buyer is obliged to check the goods immediately when delivered and to confirm the delivery note. Is this examination neglected, it will not be possible to claim for defective goods or the delivery of goods which do not refer to the ordered goods afterwards. Complaints concerning obvious defects can only be considered when they are made within 5 days after the goods arrived at the place of destination. If the goods are sold per FOB, complaints shall be made in a timely manner so that the shipment of obviously wrong or defective goods can be avoided. If the goods are sold per CIF- or C&F, the limitation period for filing a complaint will be 14 days after the arrival of the goods in the port of entry. A notice of defects does not release from the obligation to pay. In case the goods have been delivered on time and the suppliers have accepted the complaints, the orderer shall only be entitled for rescission of sale but not for price changes. The AHN Biotechnologie GmbH reserves the right to deliver replacement goods for the complained and returned

goods. In case the subsequent delivery fails again, the buyer shall be entitled to have the legal rights to withdraw from the contract. The above-mentioned paragraphs finally include the warranty for the product and exclude other warranty claims of any kind. Complaints on latent/not obvious defects have to be brought to notice immediately after they have become recognizable, however, in commercial legal relations, this has to be within 6 months after the receipt of the goods and in case of contracts with consumers, this has to be within the statutory warranty period. Warranty services are only possible under the corresponding conditions of the individual suppliers.

## 9. Applicable law, place of jurisdiction, partial nullity

The Law of the Federal Republic of Germany shall be applicable for these terms of business and the entire legal relationship between the vendor and the buyer excluding the United Nations Convention on Contracts for the International Sale of Goods (CISG) as well as possible inter-governmental agreements. This also applies if the Buyer's place of business is abroad or the delivery shall be sent from or to abroad.

If the buyer is a merchant within the meaning of the Commercial Code, a legal entity under public law, or public/statutory special funds, the place of business of the AHN Biotechnologie GmbH shall be the exclusive place of jurisdiction for all disputes arising directly or indirectly from this contractual relation. Should any provision of these terms of business or a provision within the scope of any other agreements be or become ineffective, this shall not affect the validity of any other provisions or agreements.

Nordhausen, 30/11/2012

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