CATALOGUE 2015

LIQUID HANDLING PRODUCTS



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Liquid Handling
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Uthleber Weg 14 D-99734 Nordhausen Germany

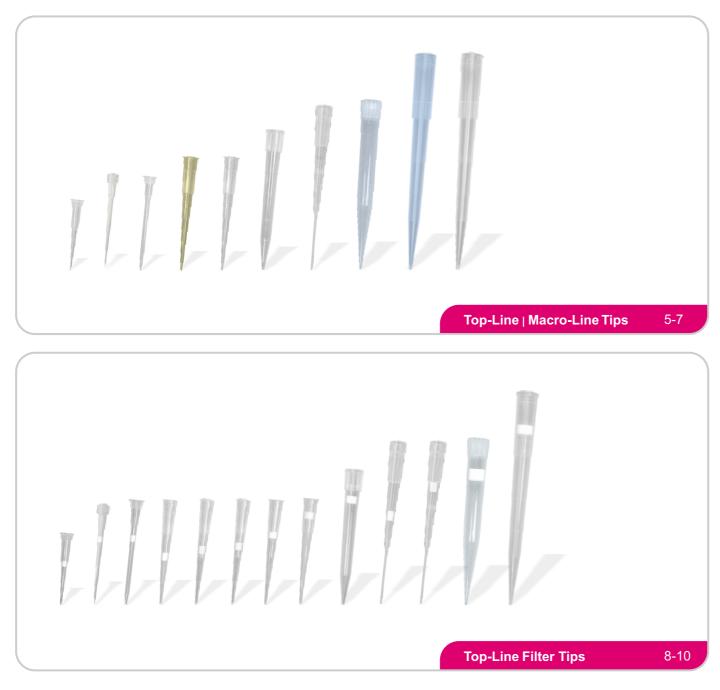
Tel.: +49(0)3631/46594-04 Fax: +49(0)3631/46594-10

E-Mail: info@ahn-bio.de Web: www.ahn-bio.de

First Edition, 2015

TIPS FILTER TIPS

Liquid Handling







Top-Line Tips Innovation for Science

CEIVD CERTIFIED netal-free FREE

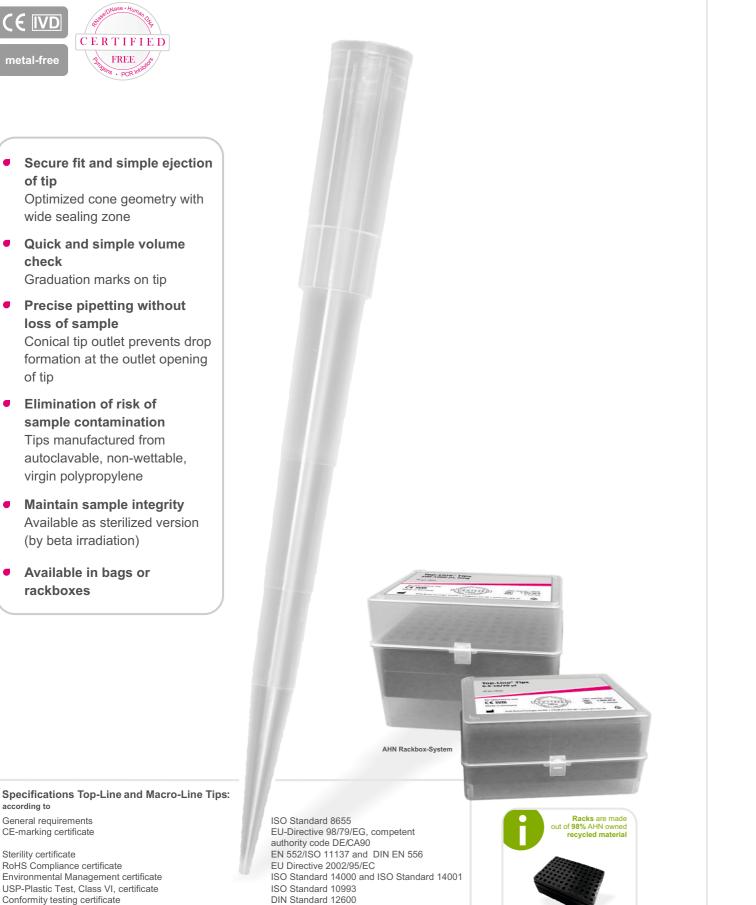
Tips Featu

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

Specifications Top-Line and Macro-Line Tips: according to 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



WHO Technical Report Series 908, 37. Report, Geneva2003

Features

Top-Line Tips

Innovation for Science

Тір	Tip Length
0.1-10 μl, clear Top-Line Tip	34.1 mm
0.1-10 μl XL, clear Top-Line Tip	45.2 mm
0.5-10/20 μl, clear Top-Line Tip	45.7 mm
1-200 μl, clear Top-Line Tip	50.8 mm
1-200 μl, yellow Top-Line	50.8 mm
1-200 μl, clear Top-Line Gelloader Tip	67.0 mm
5-300 μl, clear Top-Line Tip	55.0 mm
100-1000 μl, short, clear blue Top-Line Tip	70.1 mm
100-1000 μl, long, clear Top-Line Tip	86.0 mm
100-1000 μl, long, blue Top-Line	86.0 mm



Specifications | Order Information

Cat. No.	Pack Type	Sterilized	Sales Unit
1-000-60-0 1-000-81-0 1-000-96-0 1-001-60-0 1-001-96-0	Bag Bag 96-Rack Bag 96-Rack	:	2x1000 20x1000 10x96 2x1000 10x96
1-060-60-0 1-060-81-0 1-060-96-0 1-061-60-0 1-061-96-0	Bag Bag 96-Rack Bag 96-Rack		2x1000 20x1000 10x96 2x1000 10x96
1-050-60-0 1-050-81-0 1-050-96-0 1-051-60-0 1-051-96-0 1-052-96-0***	Bag Bag 96-Rack Bag 96-Rack 96-Rack	÷	2x1000 20x1000 10x96 2x1000 10x96 10x96
1-110-60-0 1-110-81-0 1-110-96-0 1-111-60-0 1-111-96-0	Bag Bag 96-Rack Bag 96-Rack	:	2x1000 35x1000 10x96 2x1000 10x96
1-110-60-1 1-110-81-1 1-110-96-1	Bag Bag 96-Rack		2x1000 35x1000 10x96
1-130-50-0 1-130-96-0 1-131-50-0 1-131-96-0	Bag 96-Rack Bag 96-Rack	:	1x1000 10x96 1x1000 10x96
1-103-60-0 1-103-81-0 1-103-96-0 1-104-60-0 1-104-96-0	Bag Bag 96-Rack Bag 96-Rack	:	2x1000 20x1000 10x96 2x1000 10x96
1-207-06-2 1-207-50-2 1-209-06-2 1-209-50-2 1-209-80-2	60-Rack Bag 60-Rack Bag Bag	:	10x60 1x1000 10x60 1x1000 10x1000
1-200-50-0 1-200-80-0 1-200-96-0 1-201-50-0 1-201-96-0	Bag Bag 96-Rack Bag 96-Rack	:	2x500 20x500 10x96 2x500 10x96
1-200-50-2 1-200-80-2 1-200-96-2	Bag Bag 96-Rack		2x500 20x500 10x96



Tips Specifications | Order Information

nformation correct at tim *** different tip design

Macro-Line Tips

Innovation for Science

Тір	Tip Length	Cat. No.	Pack Type	Sterilized	Sales Unit
	126.0 mm				
			and the second se		
1-5 ml, clear blue Macro-Line Tip		1-211-84-0 1-215-84-0	Bag Bag		8x250 8x250
	126.0 mm				
			Constanting of the		
1-5 ml, clear Macro-Line Tip		1-210-84-0 1-214-84-0	Bag Bag		8x250 8x250
	147.5 mm				
				Townson and	
1-5,5 ml, clear Macro-Line Tip		1-212-84-0 1-216-84-0	Bag Bag		8x250 8x250
C T The	150.0 mm				
					9
1-10 ml, clear Macro-Line Tip		1-213-50-0 1-217-50-0	Bag Bag		10x100 10x100

Specifications | Order Information

C€ IVD

CERTIFIED

FREE

Top-Line Filter Tips

Innovation for Science



- 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
- Elimination of risk of sample contamination Tips manufactured from autoclavable, non-wettable, virgin polypropylene

of tip

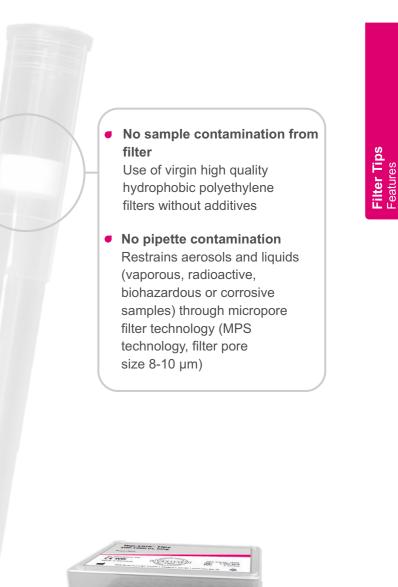
- Maintain sample integrity Available as sterilized version (by beta irradiation)
- Available in bags or rackboxes

Specifications Top-Line Filtre Tips: according to 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



Features



Top-Line" T

AHN Rackbox-System

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Racks are made t of 98% AHN owned

ecycled materia

Top-Line Filter Tips

Innovation for Science

Top-Line Filter Tips

Innovation for Science

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

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 2-000-96-0 2-001-70-0 2-001-96-0	Bag 96-Rack Bag 96-Rack	:	5 x 1000 10 x 96 5 x 1000 10 x 96
0.1-10 μl XL, clear Top-Line Filter Tip	45.2 mm	2-060-70-0 2-060-96-0 2-061-70-0 2-061-96-0	Bag 96-Rack Bag 96-Rack	:	5 x1000 10x96 5 x1000 10x96
0.5-10/20 μl, cristal Top-Line Filter Tip	45.7 mm	2-050-70-0 2-050-96-0 2-051-70-0 2-051-96-0 2-052-70-0** 2-052-96-0**	Bag 96-Rack Bag 96-Rack Bag 96-Rack		5 x 1000 10 x 96 5 x 1000 10 x 96 5 x 1000 10 x 96
1-20/30 μl, clear Top-Line Filter Tip	50.8 mm	2-116-70-0 2-116-96-0 2-126-70-0 2-126-96-0	Bag 96-Rack Bag 96-Rack	:	5 x 1000 10 x 96 5 x 1000 10 x 96
1-50 μl, clear Top-Line Filter Tip	50.8 mm	2-111-70-0 2-111-96-0 2-121-70-0 2-121-96-0	Bag 96-Rack Bag 96-Rack	1	5 x 1000 10 x 96 5 x 1000 10 x 96
1-100 μl, clear Top-Line Filter Tip	50.8 mm	2-112-70-0 2-112-96-0 2-122-70-0 2-122-96-0	Bag 96-Rack Bag 96-Rack	:	5 x 1000 10 x 96 5 x 1000 10 x 96
1-200 μl, clear Top-Line Filter Tip	50.8 mm	2-113-70-0 2-113-96-0 2-123-70-0 2-123-96-0	Bag 96-Rack Bag 96-Rack	1	5 x 1000 10 x 96 5 x 1000 10 x 96
30 μl, clear Top-Line Gelloader Filter Tip	67.0 mm	2-130-96-0 2-131-96-0	96-Rack 96-Rack		10 x 96 10 x 96
100 µl, clear Top-Line Gelloader Filter Tip	67.0 mm	2-132-96-0 2-133-96-0	96-Rack 96-Rack		10 x 96 10 x 96
	55.0 mm	2-115-70-0 2-115-96-0 2-125-70-0 2-125-96-0	Bag 96-Rack Bag 96-Rack	1	5 x 1000 10 x 96 5 x 1000 10 x 96

5-300 µl, clear Top-Line Filter Tip



Compatibility of Top-Line Filter Tips with pipet4u[®] Pipette see Filter Tips Compatibility AHN Pipettes









Specifications | Order Information

Filter Tips Specifications | Order Information





Premium-Line Tips | Filter Tips

Low Retention

netal-free

of tip

check

of tip



- Maintain sample integrity Available as sterilized version (by beta irradiation)
- Available in bags or rackboxes

Premium-Line Tips

Low Retention

Features

	Тір	Tip Length
		34.1 mm
	0.1-10 μl, clear Premium-Line Tip	
		45.2 mm
	0.1-10 µl XL, clear Premium-Line Tip	
		45.7 mm
	0.5-10/20 µl, clear Premium-Line Tip	
		50.8 mm
	1-200 μl, clear Premium-Line Tip	
		86.0 mm
	100-1000 μl, long, clear Premium-Line Tip	

Specifications Premium-Line Tips | Filter Tips: according to 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



Specifications | Order Information

Cat. No.	Pack Type	Sterilized	Sales Unit
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
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
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
4-110-60-0	Bag	:	2x1000
4-110-81-0	Bag		35x1000
4-110-96-0	96-Rack		10x96
4-111-60-0	Bag		2x1000
4-111-96-0	96-Rack		10x96
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

Low Retention Tips Specifications | Order Information

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C€ IVD

Premium-Line Filter Tips Specifications | Order Information Low Retention

Cat. No.

5-001-70-0

5-001-96-0

5-061-70-0

5-061-96-0

5-051-70-0

5-051-96-0

5-116-70-0

Bag

Bag

Bag

Bag

Bag

96-Rack

96-Rack

96-Rack

96-Rack

96-Rack

Pack Type Sterilized

.

.

.

.

Sales Unit

5 x 1000

10 x 96

5 x1000

5 x 1000

5 x 1000

10 x 96

5 x 1000

10 x 96

10 x 96

10x96

Tip

45.7 mm

50.8 mm

Rackbox-System Features | Specifications | Order Information

CERTIFIED FRFF







Large Rackbox

Small Rackbox



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

Filter Tip Length 34.1 mm -----0.1-10 µl, clear Premium-Line Filter Tip 45.2 mm

0.1-10 µl XL, clear Premium-Line Filter Tip

0.5-10/20 µl, cristal Premium-Line Filter Tip

-

5-116-96-0 1-20/30 µl, clear Premium-Line Filter Tip 50.8 mm 5-111-70-0 5-111-96-0 1-50 µl, clear Premium-Line Filter Tip 50.8 mm

	50.8 mm	5-112-70-0 5-112-96-0	Bag 96-Rack	1	5 x 1000 10 x 96
1-100 μl, clear Premium-Line Filter Tip					
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
	86.0 mm	5 201 70 0	Bag		10 × 500
	86.0 11111	5-201-70-0 5-201-96-0	Bag 96-Rack	1	10 x 500 10 x 96
100-1000 µl, long, clear Premium-Line Filt	er Tip				

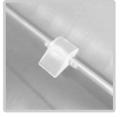


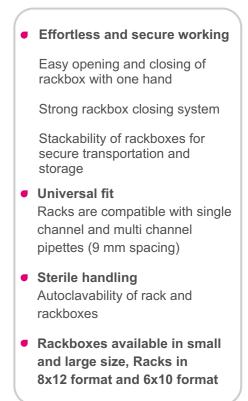














PIPETTES

Liquid Handling





pipet4u[®] Performance

High Performance Manual Pipettes





Accurate and reliable pipetting

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 mechanism² prevents volume changes cking Counter

> -20020 - 200 µl

2 0 0

20 - 200 µ]

Pipet4u® Performance • 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 RSI¹)

Features

- 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 [®]	Performance
----------------------	-------------

Single Channel fixed Volume Manual Pipettes

Volume	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 e	error *** Tip	ejector function no	ot available		

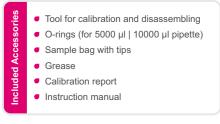
pipet4u [®] Performance Manual Pipettes meet the according to	following internation
International Organisation for Standardisation	ISO 8655, p
European Committee for Standardisation	CEN EN ISC
German Institute for Standardisation	DIN 12650
Electrical and general safety in accordance with	IEC 61010-1
Electromagnetic compatibility in accordance with	IEC 61326-1
Marking and layout in accordance with	IEC 60073

Conformity testing in accordance with

CE-Sign marked in accordance with

RSI - Repetitive Strain Injury
 Equipment of variable Volume Manual Pipettes

Specifications | Order Information



tional standards:

55, part 1-6 ISO 8655 650 010-1 326-1 DIN 12600 EU Directive 98/78 EG, Art. 10



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 1.25 µl 2.5 µl	0.01 µl	12.0 % 3.0 % 2.5 %	6.0 % 3.0 % 2.0 %	8-100-00-9
0.5 - 10 μl	1 μl 5 μl 10 μl	0.1 µl	2.5 % 1.5 % 1.0 %	1.5 % 0.8 % 0.4 %	8-101-00-9
2 - 20 µl	2 µl 10 µl 20 µl	0.5 µl	2.5 % 1.2 % 1.0 %	1.5 % 0.6 % 0.3 %	8-102-00-9
5 - 50 µl	5 μl 25 μl 50 μl	0.5 µl	2.0 % 1.2 % 1.0 %	1.5 % 0.8 % 0.3 %	8-103-00-9
10 - 100 μl	10 μl 50 μl 100 μl	0.5 µl	2.0 % 1.0 % 0.8 %	1.5 % 0.3 % 0.2 %	8-104-00-9
20 - 200 µl	20 μl 100 μl 200 μl	1.0 µl	2.5 % 1.0 % 0.6 %	0.7 % 0.3 % 0.2 %	8-105-00-9
50 - 200 μl	50 μl 100 μl 200 μl	1.0 µl	1.0 % 1.0 % 0.6 %	0.4 % 0.3 % 0.2 %	8-105-01-9
100 - 1000 µl	100 μl 500 μl 1000 μl	5.0 µl	2.0 % 0.9 % 0.6 %	0.6 % 0.2 % 0.2 %	8-106-00-9
200 - 1000 µl	200 μl 500 μl 1000 μl	5.0 µl	0.9 % 0.9 % 0.6 %	0.3 % 0.2 % 0.2 %	8-106-01-9
500 - 5000 µl	500 μl 2500 μl 5000 μl	50.0 µl	1.9 % 1.0 % 0.6 %	0.7 % 0.5 % 0.3 %	8-107-00-9
2000 - 10000 µl ^{***}	2000 μl 5000 μl 10000 μl	100.0 µl	3.0 % 1.2 % 0.6 %	0.6 % 0.3 % 0.2 %	8-108-00-9

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

pipet4u[®] Performance Manual Pipettes meet the following interna

international standards:	A
ISO 8655, part 1-6 CEN EN ISO 8655 DIN 12650	pipet4u [®] Pipett are available, s pipet4u[®] Acce
IEC 61010-1 IEC 61326-1 IEC 60073 DIN 12600 EU Directive 98/78 EG, Art. 10	Compatibility of pipet4u [®] Pipet with Top-Line T Filter Tips, see Tips/Filter Tip Compatibility

see essoir of ttes Tips/

Tool for calibration and disassembling O-rings (for 5000 µl | 10000 µl pipette)

Sample bag with tips

 Grease Calibration report Instruction manual

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 % 1.6 % 1.5 %	2.0 % 1.6 % 1.5 %	8-201-00-9
5 - 50 µl	8 Channel	5 μΙ 25 μΙ 50 μΙ	0.5 µl	2.0 % 1.0 % 0.6 %	2.0 % 0.8 % 0.5 %	8-202-00-9
30 - 300 µl	8 Channel	30 μl 150 μl 300 μl	1.0 µl	2.5 % 1.2 % 0.6 %	0.9 % 0.5 % 0.4 %	8-203-00-9
0.5 - 10 µl	12 Channel	1 μl 5 μl 10 μl	0.1 µl	4.0 % 2.5 % 1.5 %	4.0 % 2.5 % 1.5 %	8-401-00-9
5 - 50 µl	12 Channel	5 μΙ 25 μΙ 50 μΙ	0.5 µl	3.0 % 1.5 % 1.0 %	2.0 % 1.0 % 0.7 %	8-402-00-9
30 - 300 µl	12 Channel	30 μΙ 150 μΙ 300 μΙ	1.0 µl	1.5 % 1.0 % 0.8 %	0.75 % 0.5 % 0.25 %	8-403-00-9

* Systematic error ** Random error

Spare Parts

pipet4u[®] Performance Single Channel Manual Pipette

Description	Volume	Sales Unit	Cat. No.
pipet4u [®] bottom assembly 1	0.1-2.5 μl	1 Set	8-190-00-9
pipet4u [®] bottom assembly 2	0.5-10 μl 2.5 μl	1 Set	8-190-01-9
pipet4u [®] bottom assembly 3	2-20 µl	1 Set	8-190-02-9
pipet4u [®] bottom assembly 4	5-50 µl 5 µl 10 µl 20 µl 25 µl 50 µl	1 Set	8-190-03-9
pipet4u [®] bottom assembly 5	10-100 µl 100 µl	1 Set	8-190-04-9
pipet4u [®] bottom assembly 6	20-200 µl 50-200 µl 200 µl	1 Set	8-190-05-9
pipet4u [®] bottom assembly 7	100-1000 µl 200-1000 µl 250 µl 500 µl 1000 µl	1 Set	8-190-06-9
pipet4u [®] bottom assembly 8	0.5-5 ml 1-5 ml 2 ml 2.5 ml 5 ml	1 Set	8-190-07-9
pipet4u [®] bottom assembly 9	0.5-10 ml 1-10 ml 2-10 ml 10 ml	1 Set	8-190-08-9

Kuunnin

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according to

International Organisation for Standardisation	ISO 865
European Committee for Standardisation	CEN EN
German Institute for Standardisation	DIN 126
Electrical and general safety in accordance with	IEC 610
Electromagnetic compatibility in accordance with	IEC 613
Marking and layout in accordance with	IEC 600
Conformity testing in accordance with	DIN 126
CE-Sign marked in accordance with	EU Dire

Uthleber Weg 14 | D-99734 Nordhausen, Germany | Tel.: +49(0)3631/46594-04 | Fax: +49(0)3631/46594-10 | E-Mail: info@ahn-bio.de | Web: www.ahn-bio.de

Manual Pipettes Specifications | Order Informa

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International Organisation for Standardisation

Electrical and general safety in accordance with

Electromagnetic compatibility in accordance with

European Committee for Standardisation

German Institute for Standardisation

Marking and layout in accordance with

Conformity testing in accordance with

CE-Sign marked in accordance with

according to

19

ries	 Tool for calibration and disassembling
Included Accessories	 O-rings
ece	 Sample bag with tips
Υp	• Grease
ude	 Calibration report
l S L	Instruction manual

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655, part 1-6 EN ISO 8655 2650 1010-1 1326-1 0073 2600 rective 98/78 EG, Art. 10







Manual Pipettes Specifications | Order Information

pipet4u[®] Revolution

High Performance Electronic Pipettes

Dipet4u® Revolution

x 10-200 µl

Features

pipet4u[®] Revolution

Single | Multi Channel variable Volume Electronic Pipettes

Volume Range	Test Volume	Increments	Inaccuracy [*]	Imprecision**	Cat. No.
0.2 - 10 μl	0.50 µl 5 µl 10 µl	0.01 µl	5.0 % 2.5 % 0.9 %	3.0 % 1.5 % 0.5 %	8-500-00-0
5 - 100 µl	5 μl 50 μl 100 μl	0.1 µl	2.5 % 0.9 % 0.4 %	1.5 % 0.3 % 0.5 %	8-501-00-0
10 - 200 μl	10 μl 100 μl 200 μl	0.1 µl	0.9 % 0.4 % 0.3 %	0.5 % 0.5 % 0.1 %	8-502-00-0
50 - 1000 μl	100 μl 500 μl 1000 μl	1.0 µl	0.4 % 0.4 % 0.3 %	0.5 % 0.2 % 0.1 %	8-503-00-0
100 - 5000 μl	500 μl 2500 μl 5000 μl	5.0 µl	0.4 % 0.1 % 0.1 %	0.5 % 0.1 % 0.1 %	8-505-00-0
0.2 - 10 µl*** 8 Channel	0.5 μl 5 μl 10 μl	0.01 µl	5.0 % 2.5 % 0.9 %	3.0 % 1.5 % 0.5 %	8-520-00-0
2.5 - 50 µl*** 8 Channel	5 μl 25 μl 50 μl	0.10 µl	2.5 % 0.9 % 0.4 %	1.5 % 0.3 % 0.5 %	8-521-00-0
15 - 300 µl*** 8 Channel	20 μl 150 μl 300 μl	0.50 µl	0.9 % 0.4 % 0.3 %	0.5 % 0.3 % 0.1 %	8-522-00-0
0.2 - 10 µl*** 12 Channel	0.5 µl 5 µl 10 µl	0.01 µl	5.0 % 2.5 % 0.9 %	3.0 % 1.5 % 0.5 %	8-530-00-0
2.5 - 50 µl *** 12 Channel	5 μl 25 μl 50 μl	0.10 µl	2.5 % 0.9 % 0.4 %	1.5 % 0.3 % 0.5 %	8-531-00-0
15 - 300 µl*** 12 Channel	20 μΙ 150 μΙ 300 μΙ	0.50 µl	0.9 % 0.4 % 0.3 %	0.5 % 0.3 % 0.1 %	8-532-00-0

* Systematic error

** Random error



pipet4u[®] Revolution Electronic Pipettes meet the following international standards: according to

ISO 865
CEN EN
DIN 126
IEC 610
IEC 613
IEC 600
DIN 126
EU Direc



2 YEAR



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 RSI³)

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-System² controls piston movement for highest precision and accuracy
- Easy self-calibration of pipette ESM-System¹ allows user calibration of pipette, e.g. when using different sample viscosities

ESM-System - Easy Selfcalibration Management Sytem 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.

SCS-System - Speed Control System 3 RSI - Repetitive Strain Injury

Electronic Pipettes Features



Uthleber Weg 14 | D-99734 Nordhausen, Germany | Tel.: +49(0)3631/46594-04 | Fax: +49(0)3631/46594-10 | E-Mail: info@ahn-bio.de | Web: www.ahn-bio.de

Specifications | Order Information

1	ŝ	 Battery (Li-Ion-battery)
	orie	 Screw driver
	SSC	 Screw for hand grip
	e ce	 Charger (available with EU UK US Charger)
	Included Accessories	 Sample bag with tips
	dec	 Grease
	- ng	 Calibration report
	-	 Instruction manual

55, part 1-6 N ISO 8655 650 010-1 326-1 073 600 ective 98/78 EG, Art. 10



pipet4u[®]Oasis

Pipette Controller

2 YEAR warranty



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

Features

Ergonomic design for easy operation

Cordless working (8 hours with no need to recharge)

Silent high power motor

pipet4u[®]Oasis

Pipette Controller

Volume Range	Description
0.1 - 100 ml	pipet4u [®] Oasis Pipette Contro

Spare Parts

pipet4u® Oasis Pipette Controller

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

Pipette Controller Features

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Specifications | Order Information

	Sales Unit	Cat. No.
oller	Carton/1 Oasis	8-300-00-9
	 2 x NiMH Desktop Wall mou Charger 2 x PTFE Instruction 	stand unt bracket E membrane filter



Serological Pipettes Features | Specifications | Order Information

for Pipette Controller

pipet4u[®] Accessoires **Specifications | Order Information** Racks for Single Channel and Multi Channel Manual Pipettes

NEW
RNase/DNase
CERTIFIED FREE Ayrogena

- Quick and simple volume check Glass-clear polystyrene (PS) with graduation marks
- Maintain sample integrity Sterile, individually packed
- **Convenient identification** Colour-coded cotton-wool plug, standard colour code
- Accurate, stable, minimal residual wetting Weldless made of one piece
- Additional capacity Availability of negative graduation
- Display of dispensed and residual volumes 5, 10 and 25 ml pipettes provides reverse double scales

Serological Pipette	Length	Volume
(a)	271.0 mm	1.0 ml
	271.0 mm	2.0 ml
	294.0 mm	5.0 ml
	294.0 mm	10.0 ml
	297.0 mm	25.0 ml

Positive Volume	Negative Volume	Colour Coding	Graduation	Cat. No.	Pack Type	Sterilized	Sales Unit
1.0 ml	0.3 ml	yellow	0.01 ml	8-840-00-0 8-840-00-1	Ind. wrapped 25/Bag	1	4x500 4x1000
2.0 ml	0.4 ml	green	0.02 ml	8-840-01-0 8-840-01-1	Ind. wrapped 25/Bag	1.1	4x500 4x1000
5.0 ml	3.0 ml	blue	0.10 ml	8-840-02-0 8-840-02-1	Ind. wrapped 25/Bag	1.1	4x250 4x375
10.0 ml	3.0 ml	orange	0.10 ml	8-840-03-0 8-840-03-1	Ind. wrapped 25/Bag	1.1	4x200 4x250
25.0 ml	2.6 ml	red	0.20 ml	8-840-04-0 8-840-04-1	Ind. wrapped 10/Bag	1.1	4x100 4x100

Rack	Description	Sales Unit	Cat. No.
Third A.	pipet4u [®] single rack for 8 channel pipette, black	Carton/1 rack	8-130-02-7
	pipet4u [®] single rack for 8 channel pipette, white	Carton/1 rack	8-130-02-9
Him(Ay'	pipet4u [®] rack for 4 single channel pipettes, white	Carton/1 rack	8-130-00-9
Pipetie.	pipet4u [®] rack for 6 single channel pipettes, white	Carton/1 rack	8-131-00-9

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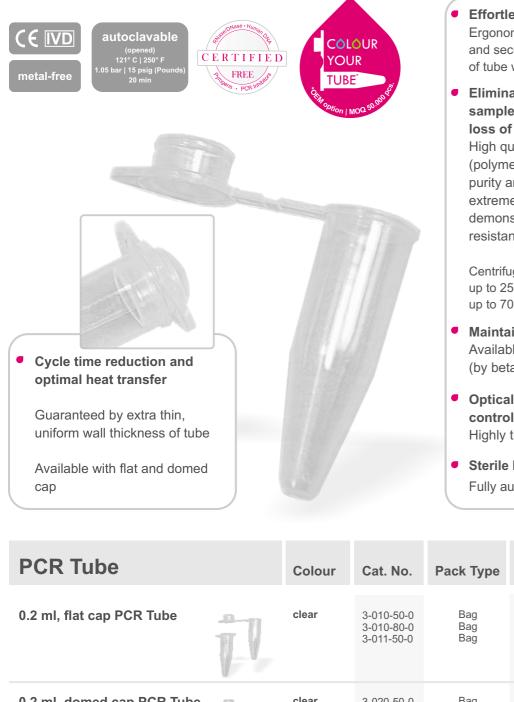
Tubes



PCR Tubes

Features | Specifications | Order Information

0.2 ml | 0.5 ml 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

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

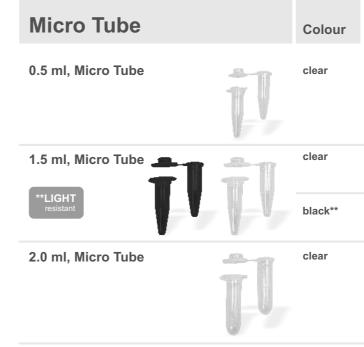
- Maintain sample integrity Available as sterilized version (by beta irradiation)
- Optical measurement and control Highly transparent tube
- Sterile handling Fully autoclavable tube

PCR Tube	Colour	Cat. No.	Pack Type	Sterilized	Sales Unit
0.2 ml, flat cap PCR Tube	clear	3-010-50-0 3-010-80-0 3-011-50-0	Bag Bag Bag	•	1 x 1000 10 x 1000 1 x 1000
0.2 ml, domed cap PCR Tube	clear	3-020-50-0 3-020-80-0 3-021-50-0	Bag Bag Bag	•	1 x 1000 10 x 1000 1 x 1000
0.5 ml, flat cap PCR Tube	clear	3-110-50-0 3-110-80-0 3-111-50-0	Bag Bag Bag	•	1 x 1000 25 x 1000 1 x 1000
0.5 ml, domed cap PCR Tube	clear	3-120-50-0 3-120-80-0 3-121-50-0	Bag Bag Bag	•	1 x 1000 25 x 1000 1 x 1000

Micro Tubes

0.5 ml | 1.5 ml | 2.0 ml





ions | Order

PCR Tubes

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Features | Specifications | Order Information

Cat. No.	Pack Type	Sterilized	Sales Unit
3-115-50-0	Bag	•	1 x 1000
3-115-80-0	Bag		25 x 1000
3-116-50-0	Bag		1 x 1000
3-205-50-0	Bag		1 x 1000
3-205-85-0	Bag		8 x 1000
3-207-50-0	Bag		1 x 1000
3-205-50-7	Bag		1 x 1000
3-205-85-7	Bag		8 x 1000
3-204-50-0	Bag	-	1 x 1000
3-204-85-0	Bag		8 x 1000
3-208-50-0	Bag		1 x 1000

Centrifuge Tubes Features | Specifications | Order Information



- 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 resists 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 Hight	Cat. No.	Pack Type	Sterilized	Sales Unit
15 ml, Centrifuge Tube, clear, blue screw cap	121.0 mm	3-252-25-0 3-262-25-0	Bag Bag		1x25 1x25
50 ml, Centrifuge Tube, clear, blue screw cap	118.0 mm	3-253-25-0 3-263-25-0	Bag Bag		1x25 1x25

Cryo Tubes

1.8 ml

CERTIFIED FREE 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 Tube **Cryo Tube** Hight 1.8 ml, Cryo Tube, clear 44.5 mm

self stand external thread barcode

Accessories

Capdisks

Co	our

magenta

white yellow light blue colour coding of samples snap into screw-top cap red areen

Centrifuge Tubes Features | Specifications | Order

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Features | Specifications | Order Information



Cat. No.	Pack Type	Sterilized	Sales Unit
3-251-49-0	Bag	:	10 x 50
3-251-10-0	Bag		2 x 50

Cat. No.	Pack Type	Sterilized	Sales Unit
3-252-10-0 3-252-50-0 3-252-10-1 3-252-50-1 3-252-50-2 3-252-50-2 3-252-50-3 3-252-50-3 3-252-10-4 3-252-50-4 3-252-10-8	Bag Bag Bag Bag Bag Bag Bag Bag Bag Bag		1 x 100 1 x 1000 1 x 100 1 x 1000 1 x 1000
3-252-50-8	Bag		1 x 1000

Features | Specifications | Order Information

Cryo Box 81-place

Effortless and secure working

Easy opening and closing of box with one hand

Robust hinge with safe snap-on lid

Drain openings for dew liquids on the bottom

- Secure long term storage and preservation Box can be stored between -90 °C and + 121 °C
- Secure transportation and storage Stackability of box

tubes 1.2 - 2 ml

Universal fit Suitable for all standard cryo

- ions | Order **Cryo Boxes** Features | Specificatio
- Sterile handling Autoclavable box • Storage of light sensitive samples Available with bottom and lid in black



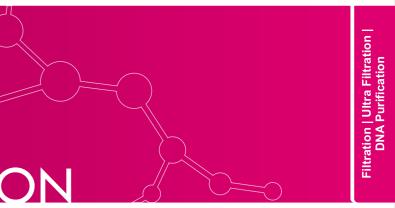
Cryo Box	Colour	Cat. Nr.	Pack Type	Sterile	Sales Unit
81-place Cryo- and Storage Box dimensions: 133 mm (W) x 133 mm (D) x 52 mm (H)	black	3-630-05-7 3-630-99-7	Pack Pack		1 Pack/ 5 Boxes 12 Packs/ 60 Boxes
9 x 9 matrix, numeric code, for tube diameter 12,8 mm light protection	magenta	3-630-05-8	Pack		1 Pack/
81-place Cryo- and Storage Box	magenta	3-030-03-0	1 dok		5 Boxes
dimensions: 133 mm (W) x 133 mm (D) x 52 mm (H) 9 x 9 matrix, numeric code, for tube diameter 12,8 mm		3-630-99-8	Pack		12 Packs/ 60 Boxes



FILTRATION ULTRA FILTRATION I DNA PURIFICATION

Liquid Handling

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Systems

Mini Spin Column Features | Specifications | Order Information

CERTIFIED FREE

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 (e.g. CA|RC|GF|PVDF| PE|PTFE|Nylon) depending on customer specific applications*
- Available with 1.5 ml or 2.0 ml receiver tubes

For further information or product specific inquiries contact us info@ahn-bio.de Mini S





Mini Spin Column

round bottom

without lid

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 filterring	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 3-200-80-0	Bag Bag		1x1000 10x1000
2.0 ml, Receiver Tube, clear	3-202-50-0 3-202-80-0	Bag Bag		1x1000 10x1000

Filtration System

Features | Specifications | Order Information Deep Well Microplate | Microfilterplate | Vacuum Manifold



- 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



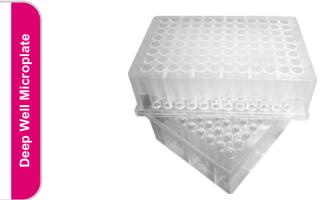
- Elimination of risk of sample contamination Manufactured from high-quality clear acrylic for medical applications
- Material of individual components: Annealed, transparent acrylic **Connection sleeve - PTFE** Rubber seal - synthetic caoutchouc
- Designed for all usual filterplates according to SBS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

Filtration System

1.0 ml, Deep Well Microplate, 96 Wells, SBS, clear

Vacuum Manifold, manual, clear bottom part - height 50 mm upper part - height 20 mm spacer - height 22 mm

Uthleber Weg 14 | D-99734 Nordhausen, Germany | Tel.: +49(0)3631/46594-04 | Fax: +49(0)3631/46594-10 | E-Mail: info@ahn-bio.de | Web: www.ahn-bio.de



• 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 (e.g. CA|RC|GF|PVDF|PE| PTFE|Nylon) depending on customer specific applications



Vacuum Manifold			
Cat. No.	Pack Type	Sterilized	Sales Unit
3-211-25-0	Carton		1 Carton/ 25 Plates
3-401-01-0	Carton		1 Carton/ 1 Manifold

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 marketrelated 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

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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

Notes
NOLES

ahn			
	biotechnolc		
	a division of Harvar		
el.: +49(0)3631/46594-04 hx: +49(0)3631/46594-10 E-Mail: info@ahn-bio.de	D-99734 Nordhausen Fa Germany		
Web: www.ahn-bio.de			
General Manager Side Leader	Torsten Buchwald DiplUmweltwiss./DiplIng. (FH)		
	Tel.: +49(0)3631/46594-09		
	Mobil: +49(0)163/59950-75 Fax: +49(0)3631/46594-10		
	E-Mail: tb@ahn-bio.de		
International Sales Manager	Diana Pawlak	Sales Director Channel Manager	Lars Beyer Dipl. BW (FH)
Germany	Tel.: +49(0)3631/46594-08		: +49(0)3631/47439-18
North America South Amercia	Mobil: +49(0)163/59950-77 Fax: +49(0)3631/46594-10		bil: +49(0)163/59950-78 :: +49(0)3631/46594-10
Central America	E-Mail: dp@ahn-bio.de		lail: Ib@ahn-bio.de
Sales Assistant Customs Clearance	Nicole Hellmuth	International Sales Manager	Mario Schmeißer
Dispatching	Tel.: +49(0)3631/46594-04	Europe	+49(0)3631/4667-22
	Tel.: +49(0)3631/46594-04 Fax: +49(0)3631/46594-10	Asia Africa	+49(0)3631/46594-10
	E-Mail: nh@ahn-bio.de	Oceania	ail: ms@ahn-bio.de
	Distributor		

Tel.: Mobi Fax: E-Ma

B.A.

Tel.: Fax: E-Ma