Pipettes

MANUAL PIPETTES

ELECTRONIC PIPETTES

PIPETTE CONTROLLERS

SEROLOGICAL PIPETTES

REPEAT DISPENSER

ErgoOne® Pipettes: Overview

Challenging in Performance and Price

Everyday, pipettes are confronted with multiple tasks that must be exact and precise. Reliability is key in the laboratory and your pipette must be trusted to perform well, day in, day out.

As one of the most frequently used instruments in the laboratory, pipettes must also be comfortable to use and provide the features you need. ErgoOne® pipettes combine researcher-requested features with the latest ergonomic principles to provide optimum performance. ErgoOne® provides you with accuracy and precision you can trust, and a stylish new look you will love.

Lightweight and extremely easy to use, ErgoOne® can be trusted to provide accurate and precise pipetting all day, every day. Use with STARLAB's TipOne® Tips for the perfect pipetting partnership.

ErgoOne® is designed to fit all popular pipettes without any loss of accuracy or precision.

Features

- Minimal operating forces
- Lightweight ergonomic design
- Colour coded
- Volume lock
- Fully autoclavable
- UV-resistant
- Low maintenance
- Made in Germany
- 3-year warranty

Ergonomically designed finger rest ensures comfort and ease during use

Colour coding and volume lock

Smooth action tip ejector

Volume display positioned so it is visible during pipetting

4-digit volume display for greater accuracy

ErgoOne® multi-channel ordering info pages 44–45.

Manual Pipettes

Ergo One

Contoured handle
for extra comfort

Fully autoclavable
and can also be UV sterilised

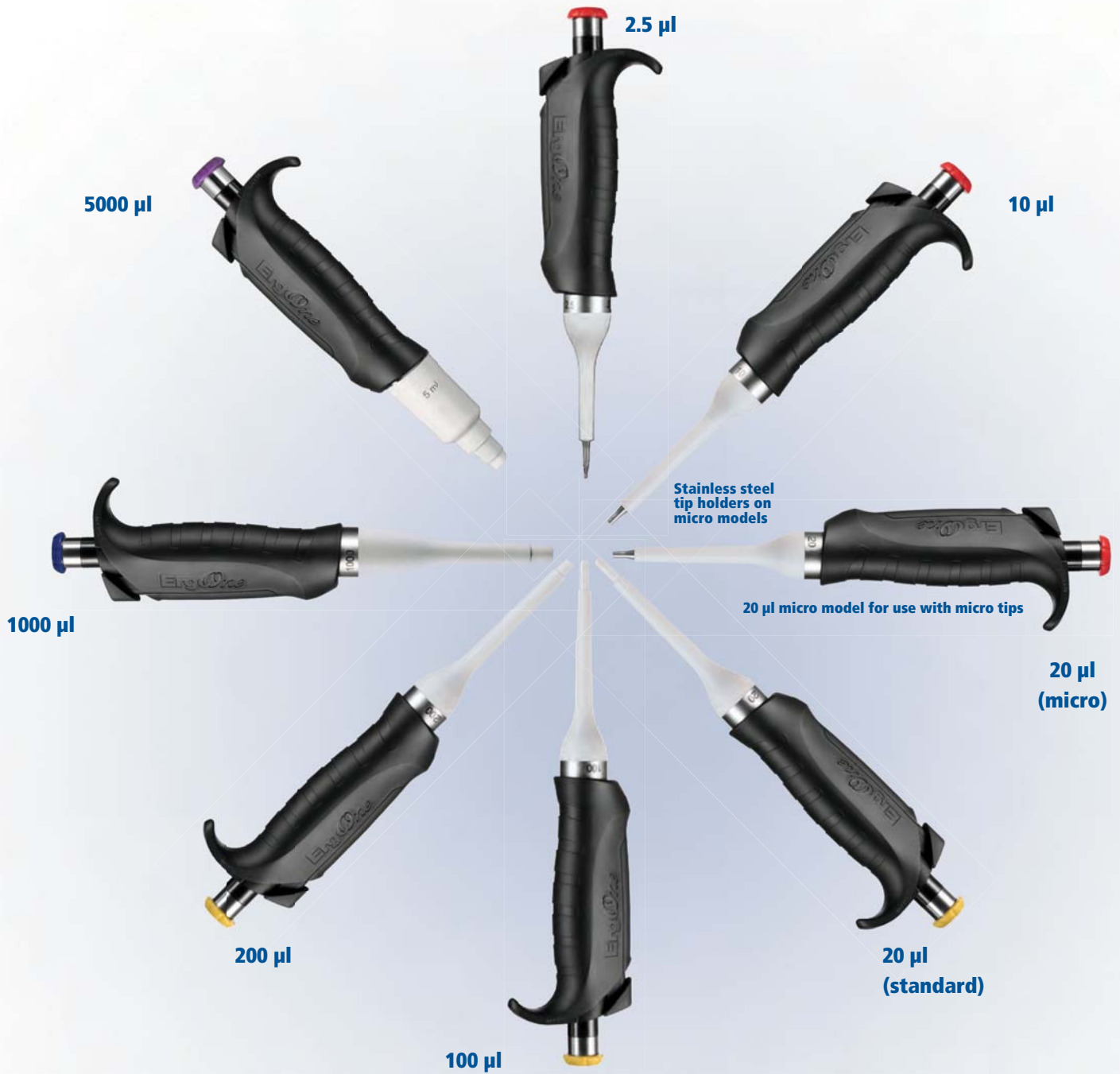**Easily removable tip ejector**
for fast cleaning

Extra volume
identification

Integral, rust-free
tip ejector

Reduced diameter
of tip ejector
allows easy access into
small tubes

iF
product
design
award
2010

STAR LAB

ErgoOne® Single-Channel Pipettes

2.5 µl

5000 µl

10 µl

Stainless steel
tip holders on
micro models

1000 µl

20 µl micro model for use with micro tips

**20 µl
(micro)**

200 µl

**20 µl
(standard)**

100 µl

Setting the new standard in pipetting!

The range of ErgoOne® single-channel pipettes consists of eight models covering the volume range 0.1 µl to 5 ml.

Features

- Minimal operating forces
- Lightweight ergonomic design
- Colour coded
- Volume lock
- Fully autoclavable
- UV-resistant
- Low maintenance
- Made in Germany
- 3-year warranty

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ErgoOne®

Single-Channel Ordering Info & Specifications						
Cat. No.	**Volume Range (Colour Coding)**	**Volume µl**	**Systematic Error (Inaccuracy) ± %**		**Random Error (Imprecision) ± %**	
			EN ISO 8655-2	ErgoOne®	EN ISO 8655-2	ErgoOne®
S7100-0125	0.1 – 2.5 µl (Red)	0.1	125	24	75	12
		1.25	10	2.5	6.0	1.5
		2.5	5.0	1.4	3.0	0.7
S7100-0510	0.5 – 10 µl (Red)	1.0	12	2.5	8.0	1.8
		5	2.4	1.5	1.6	0.8
		10	1.2	1.0	0.8	0.4
S7100-0221 (micro cone)	2 – 20 µl (Red)	2	10	5.0	5.0	1.5
		10	2.0	1.2	1.0	0.6
		20	1.0	1.0	0.5	0.3
S7100-0220 (standard cone)	2 – 20 µl (Yellow)	2	10	5.0	5.0	1.5
		10	2.0	1.2	1.0	0.6
		20	1.0	1.0	0.5	0.3
S7100-1100	10 – 100 µl (Yellow)	10	8.0	3.0	3.0	1.0
		50	1.6	1.0	0.6	0.3
		100	0.8	0.8	0.3	0.2
S7100-2200	20 – 200 µl (Yellow)	20	8.0	2.5	3.0	0.7
		100	1.6	1.0	0.6	0.3
		200	0.8	0.6	0.3	0.2
S7110-1000	100 – 1000 µl (Blue)	100	8.0	3.0	3.0	0.6
		500	1.6	1.0	0.6	0.2
		1000	0.8	0.6	0.3	0.2
S7150-5000	500 – 5000 µl (Violet)	500	8.0	2.4	3.0	0.6
		2500	1.6	1.2	0.6	0.25
		5000	0.8	0.6	0.3	0.15

Tested in accordance with EN ISO 8655, using STARLAB's TipOne® tips.

S7200-0000

E3099-0000

Pipette Stands

The coordinating, rotating pipette stand can hold up to eight ErgoOne® pipettes (single or multi-channel). The stand is suitable for everyday laboratory use and offers the versatility of being able to hold a range of other manufacturers pipettes too (e.g. Biohit®, Finn®, Gilson® and Rainin®).

The Acrylic stand is suitable for the use with ErgoOne®, Biohit®, Eppendorf®, Finn®, Gilson® and Rainin® pipettes, amongst others.

Pipette Stands		
Cat. No.	**Description**	**Colour**
S7200-0000	Universal Carousel Stand for up to 8 Pipettes	Black/ Silver
E3099-0000	Universal Acrylic Stand for up to 5 Pipettes	Yellow

Images for illustrative purposes only. Pipettes not included.

STARLAB

ErgoOne® Multi-Channel Pipettes

A great tool to speed up your pipetting process

ErgoOne® multi-channel pipettes are designed in acc-ordance with the latest ergonomic principles. The pipette is extremely easy to use and has minimal operating forces to help prevent hand fatigue. ErgoOne® multi-channel pipettes provide accurate and precise pipetting in a variety of volume ranges.

Features

- Minimal operating forces
- Lightweight ergonomic design
- Colour coded
- Volume lock
- Fully autoclavable
- UV-resistant
- Low maintenance
- Made in Germany
- 3-year warranty

iF product design award 2010

Easily removable lower part for fast cleaning
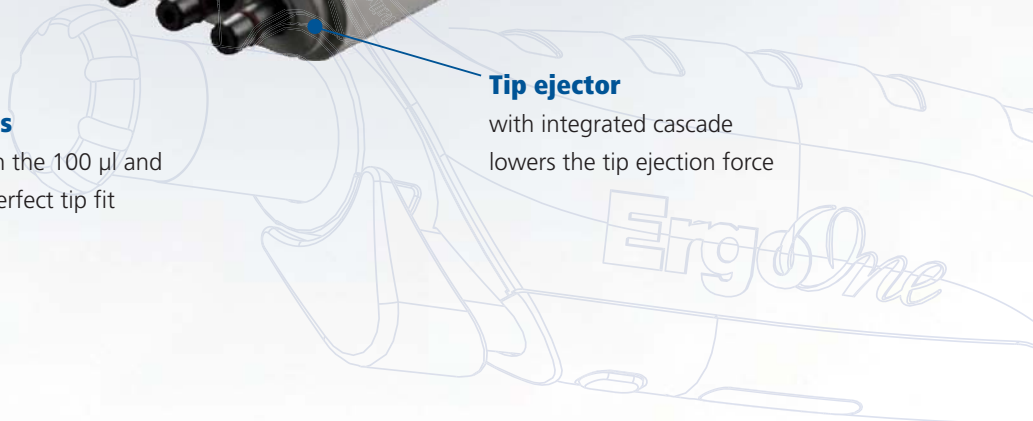with additional volume identification

Wear-resistant polymer tip holders
(and silicone o-rings on the 100 µl and 300 µl models) for a perfect tip fit

Tip ejector
with integrated cascade lowers the tip ejection force

ErgoOne®

			Multi-Channel Ordering Info & Specifications			
Cat. No.	Volume Range (Colour Coding)	Volume µl	Systematic Error (Inaccuracy) ± %		Random Error (Imprecision) ± %	
			8655-2	ErgoOne®	8655-2	ErgoOne®
8-Channel Pipettes						
S7108-0510	0.5 – 10 µl (Red)	1.0	24	8.0	16	5.0
		5.0	4.8	4.0	3.2	2.0
		10	2.4	2.0	1.6	1.0
S7108-1100	10 – 100 µl (Yellow)	10	32	3.0	12	2.0
		50	16	1.0	6.0	0.8
		100	3.2	0.8	1.2	0.3
S7108-3300	30 – 300 µl (Green)	30	26.7	3.0	10	1.0
		150	5.3	1.0	2.0	0.5
		300	2.7	0.6	1.0	0.3
12-Channel Pipettes						
S7112-0510	0.5 – 10 µl (Red)	1.0	24	8.0	16	5.0
		5.0	4.8	4.0	3.2	2.0
		10	2.4	2.0	1.6	1.0
S7112-1100	10 – 100 µl (Yellow)	10	32	3.0	12	2.0
		50	16	1.0	6.0	0.8
		100	3.2	0.8	1.2	0.3
S7112-3300	30 – 300 µl (Green)	30	26.7	3.0	10	1.0
		150	5.3	1.0	2.0	0.5
		300	2.7	0.6	1.0	0.3

Tested in accordance with EN ISO 8655, using STARLAB's TipOne® tips.

Manual Pipettes

Pipette Stands

See page 43 for details.

StarPet E Electronic Pipettes

So easy to use!

StarPet E single and multi-channel electronic pipettes are lightweight and easy to use. These multi-functional pipettes have operating modes for standard and reverse pipetting as well as multiple and sequential pipetting, mixing of samples and serial dilutions. All functions can be easily programmed using one hand on the easy to reach, easy to use keypad.

Electronic Pipettes				
Cat. No.	Volume Range	Increments	AC*(%)	CV**(%)
Single-Channel				
G9900-0010	0.5 – 10 µl	0.1 µl	± 4.0 to ± 1.0	≤ 2.5 to ≤ 0.4
G9900-0020	2 – 20 µl	0.1 µl	± 4.0 to ± 1.0	≤ 2.5 to ≤ 0.4
G9900-0200	10 – 200 µl	1.0 µl	± 2.5 to ± 0.6	≤ 1.0 to ≤ 0.15
G9900-1200	100 – 1200 µl	1.0 µl	± 2.5 to ± 0.5	≤ 0.6 to ≤ 0.15
8-Channel				
G9908-0010	0.5 – 10 µl	0.1 µl	± 4.0 to ± 1.5	≤2.5 to ≤ 0.5
G9908-0020	2 – 20 µl	0.1 µl	± 4.0 to ± 1.0	≤ 2.5 to ≤ 0.5
G9908-0200	10 – 200 µl	1.0 µl	± 3.0 to ± 0.6	≤ 1.0 to ≤ 0.15
G9908-1200	100 – 1200 µl	1.0 µl	± 3.0 to ± 0.5	≤ 0.8 to ≤ 0.2
12-Channel				
G9912-0010	0.5 – 10 µl	0.1 µl	± 4.0 to ± 1.5	≤ 2.5 to ≤ 0.5
G9912-0020	2 – 20 µl	0.1 µl	± 4.0 to ± 1.0	≤ 2.5 to ≤ 0.5
G9912-0200	10 – 200 µl	1.0 µl	± 3.0 to ± 0.6	≤ 1.0 to ≤ 0.15
G9912-1200	100 – 1200 µl	1.0 µl	± 3.0 to ± 0.5	≤ 0.8 to ≤ 0.2

*Maximum Systematic Error (ISO 8655). **Maximum Random Error (ISO 8655).
NOTE: Lowest testing on 0.5-10 µl pipettes is at 1 µl, not 0.5 µl

All pipettes are supplied with one Li-ion battery, an AC-DC power supply, and a self-adhesive pipette holder.

Accessories	
Cat. No.	Description
G9999-0006	Li-ion Battery for StarPet E
G9999-0003	Acrylic stand (holds up to 3 pipettes)

Features

- Easy to use
- Lightweight, ergonomic design
- Excellent accuracy and precision
- Precise volume setting
- Five aspirating/dispensing speeds
- Auto calibration
- Fully motorised piston drive virtually eliminates pipetting force
- Auto memory of last-used pipetting protocol/settings
- Store up to nine sets of operating parameters for instant recall
- Autoclavable lower manifold
- Long lasting, rechargeable Li-ion battery that lasts for up to 40 hours of normal use
- Can be recharged during use
- Shelf pipette holder included with every pipette

DEMO MODELS
TRY before you BUY
available on request

G9999-0003 Acrylic Stand

Image for illustrative purposes only. Pipettes not supplied.

StarPet Pro (Cordless Controller)

StarPet Pro Cordless Controller

The StarPet Pro is a lightweight, cordless pipetting aid for use with all plastic or glass pipettes from 1.0 ml to 100 ml. Constructed from recyclable materials, the StarPet Pro operates on two rechargeable, long-life environmentally-friendly 1.2 V nickel metal hydride batteries.
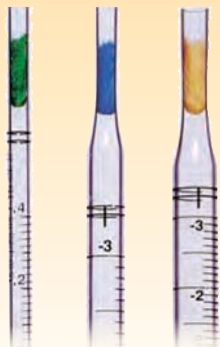
Features

- Two aspirate and dispense speeds
- Gravity dispense mode designed for use with 'To Deliver' (TD) pipettes
- Fast! Fills a 25 ml pipette in under 3 seconds!
- Autoclavable and replaceable silicone pipette holder
- 4 hours continuous use from a fully-charged battery
- 'Low Battery' indicator light
- Ready for use at any time – can be recharged during use!

StarPet Pro Specifications	
Batteries:	2 x 1.2 V nickel metal hydride
Charger:	75 mAh for 14 hours
Weight:	180 g (without stand/wall bracket)
Filter:	Hydrophobic 0.45 µm or 0.2 µm
Materials:	Case & Nosecone: ASA Pipette Holder: Silicone
Voltage:	100 V – 240 V, 50 – 60 Hz
Supplied with:	Charger, Stand, 1 x 0.2 µm filter, and 1 x 0.45 µm filter ready fitted

Pipette Controllers		
Cat. No.	Description	Pack Size
E4866-1126	StarPet Pro Cordless Pipette Controller	1
E4266-0070	Replacement Charger	1
P2131-0002	ASA Nosecone (White)	1
E4266-0890	0.2 µm Filter (White)	5
E4266-0030	0.45 µm Filter (Blue)	5
E4266-0040	Silicone Pipette Holder	1

Serological Pipettes

See the range of individually-wrapped, sterile polystyrene pipettes on page 49.

DEMO MODELS
TRY before you BUY
available on request

The unique stand can be used on the bench or mounted on a wall.

STARLAB

StarPet Safety Filler (Manual)

Supplied with four different colour pipette cones to aid safety colour-coding

StarPet Safety Filler

- Use with all plastic or glass pipettes, 1.0 ml to 100 ml
- Robust, lightweight and easy to use
- Simple thumb button operation
- Autoclavable and replaceable silicone pipette holder
- Easily maintained, simply clean with a damp cloth
- Supplied with a 0.45 µm filter and four different colour pipette cones (white, pink, violet, green) to aid safety colour-coding

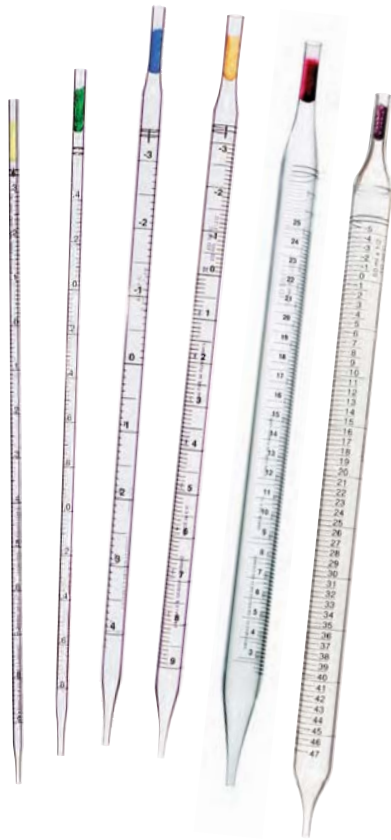| StarPet Safety Filler		
Cat. No.	Description	Pack Size
E4866-1000	StarPet Safety Filler	1
E4266-0890	0.2 µm Filter (White)	5
E4266-0030	0.45 µm Filter (Blue)	5
E4266-0040	Silicone Pipette Holder	1

StarPet Filler (Manual)

StarPet Filler

- Use with all plastic or glass pipettes, 1.0 ml to 25 ml
- Exceptionally smooth operation
- Two dispense resolutions for maximum accuracy: one delivers fast filling with optimal accuracy for 10 ml to 25 ml pipettes; the other is for use with 1.0 ml to 10 ml pipettes where accuracy can sometimes be difficult to control
- Compatible with Blow-Out, 'To Deliver' (TD) or gravity dispense pipettes
- Autoclavable and replaceable silicone pipette holder

Starpet Filler		
Cat. No.	Description	Pack Size
E4866-2000	StarPet Filler	1
E4266-0040	Silicone Pipette Holder	1

Polystyrene Pipettes

Clearly a quality pipette!

Perfect for use with all popular pipette controllers, including STARLAB's own range (see pages 47–48), these serological pipettes are made from crystal polystyrene with a seamless construction to eliminate hangup and provide more accuracy.

Available sterile and individually-wrapped, these high quality pipettes feature exclusive colour coded plugs that conform to the international standard.

Serological Pipettes (Sterile)

Cat. No.	Description	Pack Size
E4860-0111	1.0 ml Serological Pipette, Yellow Filter,(Sterile), Ind. Wrapped	500
E4860-0211	2.0 ml Serological Pipette, Green Filter (Sterile), Ind. Wrapped	500
E4860-0511	5.0 ml Serological Pipette, Blue Filter (Sterile), Ind. Wrapped	250
E4860-1011	10 ml Serological Pipette, Orange Filter (Sterile), Ind. Wrapped	200
E4860-2511	25 ml Serological Pipette, Red Filter (Sterile), Ind. Wrapped	100
E4860-5012	50 ml Serological Pipette, Violet Filter (Sterile), Ind. Wrapped	100

Specifications

Pipette Volume	Plug Colour*	Increments	Extra Graduations	Total Volume
1.0 ml	Yellow	0.01 ml	0.3 ml	1.3 ml
2.0 ml	Green	0.02 ml	0.4 ml	2.4 ml
5.0 ml	Blue	0.1 ml	3.0 ml	8.0 ml
10 ml	Orange	0.1 ml	3.0 ml	13.0 ml
25 ml	Red	0.2 ml	2.6 ml	27.6 ml
50 ml	Violet	0.5 ml	10.0 ml	60.0 ml

Features

- Accuracy >98 %
- Sterile pipettes with colour-coded plugs for ease of selection
- Crisp, black, raised permanent graduations
- Ascending and descending graduations on pipettes 5 ml and over
- ISO 9001 : 2008 manufactured
- Certified non-cytoxic, non-haemolytic and pyrogen free

New, improved packaging

- Closable, Stackable, Space-Saving
- Colour coded
- Clearly visible bar codes
- Lot No. on every individual pipette

⚠ ② STERILE R Dnase RNase Free Non pyrogenic **10 ml serological pipette** Lot # every Sterile if unopened or undamaged package Lot P015 08-2013

Traceable packs: Individually wrapped in fibre-free paper/plastic peel back packs, showing the Lot. No

STARLAB

RepeatOne® Dispenser

Rapid dispensing!

RepeatOne® is a hand-held device for repetitive and rapid dispensing of volumes 10 µl to 5 ml. Up to 48 pipettings of the same sample can be made without refilling, resulting in a considerable reduction in time and expense.

RepeatOne® allows the selection of five separate volumes from each TipOne® Repeat Dispenser Tip.

Features

- Up to 48 dispenses from the same sample
- Locking clamp holds the dispenser tip securely in place
- Conforms to EN ISO 8655 Piston-Operated Volumetric Apparatus
- Conforms to ASTM E1154-89 (2003) Standard Specification for Piston or Plunger Operated Volumetric Apparatus
- Conforms to 98/79/EEC In Vitro Diagnostic Medical Devices
- 2-year warranty

RepeatOne® Dispenser		
Cat. No.	Description	Pack Size
S4026-1500	RepeatOne® Dispenser (incl. Adapter for 25 ml and 50 ml Dispenser Tips)	1
S4026-1525	Replacement Adapter for for 25 ml and 50 ml Dispenser Tips	1

Technical Data									
TipOne® Repeat Size	Dispensing Volume			Systematic Error (Inaccuracy)			Random Error (Imprecision; CV)		
	Min.		Max.	Min.		Max.	Min.		Max.
0.5 ml	10 µl	30 µl	50 µl	±2.0 %	±1.0 %	±1.0 %	±2.0 %	±1.0 %	±0.8 %
1.25 ml	25 µl	75 µl	125 µl	±0.9 %	±0.9 %	±0.9 %	±0.9 %	±0.7 %	±0.6 %
2.5 ml	50 µl	150 µl	250 µl	±0.7 %	±0.7 %	±0.7 %	±0.9 %	±0.7 %	±0.6 %
5 ml	100 µl	300 µl	500 µl	±0.6 %	±0.6 %	±0.6 %	±0.6 %	±0.5 %	±0.3 %
12.5 ml	250 µl	750 µl	1250 µl	±0.5 %	±0.5 %	±0.5 %	±0.6 %	±0.5 %	±0.3 %
25 ml	500 µl	1500 µl	2500 µl	±0.4 %	±0.4 %	±0.4 %	±0.6 %	±0.4 %	±0.25 %
50 ml	1000 µl	3000 µl	5000 µl	±0.3 %	±0.3 %	±0.3 %	±0.5 %	±0.4 %	±0.25 %

Dispenser Tips

See page 22 for ordering details of STARLAB's TipOne® Repeat Dispenser Tips.

Compatibility

The RepeatOne® dispenser can be used with the following dispenser tips:

- STARLAB TipOne® Repeat Dispenser Tips, see page 22
- Brand®
- Eppendorf®
- Gilson®
- HTL®
- Ritter®

Test conditions in accordance with EN ISO 8655	
Liquid:	Water bi-distilled, degassed.
Test Temperature:	20 – 25 °C, ±0.5 °C constant (Data for TipOne® Repeat 0.5 ml, 1.25 ml and 2.5 ml are determined with attached 200 µl pipette tip).
Operating Temperature:	+4 °C to +40 °C.
Measurement:	Performed with original TipOne® Repeat dispenser tips in accordance with EN ISO 8655

Repeat Dispenser